

CV

Sule Yildirim Yayilgan

July 2024

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1 My personal information

*First name, Family name: SULE, YILDIRIM-YAYILGAN

*Age: 53 years

*Sex: F

*Nationality: Turkish

URL for personal web site: <https://www.ntnu.edu/employees/sule.yildirim>

2 Academic Degrees

Postdoc, Computer Science Norwegian University of Science and Technology, Trondheim, Norway 2004

Ph.D., Computer Science International Computer Institute, Ege University, Izmir, Turkey 2002

M.Sc., Computer Engineering Ege University, Izmir, Turkey 1995

B.Sc., Computer Engineering Ege University, Izmir, Turkey 1993

3 Employment History

2020- Professor, Department of Information Security and Communication Technology, NTNU, Gjøvik, Norway

2016- Associate Professor, Department of Information Security and Communication Technology, NTNU, Gjøvik, Norway

2016 Associate Professor, Faculty of Computer Science and Media Technology, NTNU

2009-2015 Associate Professor, Faculty of Computer Science and Media Technology, Gjøvik University College (GUC), Norway

2005-2009 Head of Department, Department of Computer Science, Hedmark University College (HIHM), Norway

2005-2009 Game Programming Study Programme Responsible, HIHM, Norway

2008-2009 Coordinator of Administrative Data Management Study in collaboration with Studiesenteret¹, HIHM

2004-2005 Associate Professor, Department of Computer Science, Hedmark University College (HIHM), Norway

4 Visiting Positions

5/2018-5/2018 Visiting Professor, University of Pardubice, Czech Republic

12/2016-12/2016 Visiting Professor, University of Tirana, Albania

6/2008-06/2008 Visiting Professor, Northwestern University, Chicago, USA

9/2000-8/2001 Visiting Scholar, Carnegie Mellon University (CMU), Robotics Institute

9/1999-12/1999 Exchange PhD Student, Department of Computer Science (IDI), NTNU, Norway

5 Awards

- 2025 Best Paper Award for the paper 'Improving Text Classification by Fusing Linguistic and Semantic Features' the 6th International Conference on Advancements in Computational Sciences (ICACS25), University of Lahore
- 2024 Successful completion of the course 'PED6050 Future technologies for training and learning' at NTNU in Autumn 2024
- 2023 Best Paper Award at IEEE 9th International Conference on Automation, Robotics and Application, February 10-12, Abu Dhabi
- 2020 NTNU's mentorprogram for kvinnelige førsteamanuenser og førstelektorer
- 2020 Pedagogisk Mappe Utvikling Certificate

¹<http://www.studiesenteret.no>

- 2020 Certificate of completion of the course Horizon2020 Proposal Writing - Focus: IMPACT, Organized by NFR in cooperation with Europe Media Trainings
- 2018 Certificates of the Deep Learning course (6 months duration), Coursera
- 2015 With Zenun Kastrati, Ali Shariq Imran and Fisnik Dalipi awarded the 2015 HCI best paper award for [1].
- 2006 Leadership certificate from Confex Leader Development Programme, Oslo
- 2002 First Prize Winner with PhD work in Category of Physical and Mathematical Sciences, EBILTEM (EGE University Science and Technology Center)², Project Competition and Exhibition, November. The evaluation committee included people from industry.
- 2000-2001 NATO A-2 Research Scholarship from the Scientific and Technical Research Council of Turkey. I visited Carnegie Mellon University, Robotics Institute, USA.
- 1999 Visiting Researcher Scholarship from the Research Council of Norway and the Ministry of Education in Turkey under a cultural relations program between Norway and Turkey. I was awarded one of two scholarships given among 45 applicants. I visited Norwegian University of Science and Technology, Sep. – Dec.

²<http://www.ebiltem.ege.edu.tr/eng-0/Homepage.html>

6 Scholarly and Professional Duties

6.1 Editorial Board

- 2024 Special Issue Editor for Image and Video Processing and Retrieval Based on Machine Learning and Deep Learning, MDPI
- 2024 Guest Associate Editor for Big Data Networks Frontiers in Big Data
- 2022 Special issue on "Simulation Modelling of Smart Grid Security and Dependability", Electronics, MDPI, Guest Editor
- 2020-2021 Intelligent Technologies and Applications, Series ISSN 1865-0929, Editor
- 2021-2024 Artificial Intelligence in Gastrointestinal Endoscopy, Editorial Board Member
- 2020 Special issue on "Digital Crime Evidence Collection and Ontologies", Journal of Imaging, MDPI, Guest Editor
- 2020- American Journal of Information Science and Technology, Editorial Board Member
- 2020- Computational Intelligence and Machine Learning (CI Machine Learning), Editorial Board Member ³
- 2020- International Journal of Automation, Artificial Intelligence and Machine Learning (IJAAIML), Editorial Board Member.
- 2020- Advanced Molecular Imaging and Interventional Radiology, Ocimum Science Publishers, Editorial Board Member
- 2020- Ant Publishing, Editorial Board Member
- 2018- Machine Learning Research, Science Publishing Group, Editorial Board Member
- 2015- International Journal of Science, Innovation and New Technology (IJSINT), Editorial, Advisory and Academic Board Member
- 2011 Book: Ubiquitous Multimedia and Mobile Agents: Models and Implementations published by IGI Publishing, USA, ISBN13: 9781613501078, August, Editorial Advisory Board.
- 2010 Proceedings of the second Norwegian Artificial Intelligence Symposium, 22 November, GUC, Tapir Akademisk Forlag (ISBN 978-82-519-2704-8), Editor
- 2007 Book - ISBN: 1-60132-023-X (ICAI'07 Volume I)"Proceedings of the 2007 International Conference on Artificial Intelligence, Associated Editor
- 2007 Book - ISBN: 1-60132-024-8 (ICAI'07 Volume II) "Proceedings of the 2007 International Conference on Artificial Intelligence, Associated Editor
- 2007 Book - ISBN: 1-60132-025-6 (for the set of two volumes) "Proceedings of the 2007 International Conference on Artificial Intelligence (ICAI'07)", Associated Editor

6.2 Reviewer Board of Journals

- 2025 Social Network Analysis and Mining, Reviewer
- 2024- IEEE Access, Reviewer
- 2024- Journal of Applied Sciences, Reviewer
- 2023- Applied Ontology, Reviewer
- 2021- Online Social Networks and Media, Elsevier, E-ISSN:2468-6964, Reviewer

³<http://www.cimachinelearning.com>

- 2020- The special issue "Machine Learning for IoT Applications and Digital Twins" in Sensors ⁴, Manuscript Reviewer
- 2019 Neural Computing and Applications, Reviewer
- 2018- Police Practice and Research: An International Journal, Reviewer
- 2018- Journal Measurement, Reviewer
- 2018- Journal Applied Sciences, MDPI, Reviewer Board
- 2018 Machine Learning Research, Reviewer
- 2018 Book, Smart Micro-grid Systems Security and Privacy, Advances in Information Security, Reviewer
- 2011 International Journal of Computer Science and Applications, Reviewer
- 2011 Springer book, "Semantic Agent Systems: Foundations and Applications"

6.3 General, Co-, Publication, Program and Session Chairs

- 2026 ICARA: The 12th International Conference on Automation, Robotics and Applications, 5-7 February, Istanbul, Turkiye, Publication Chair
- 2025 ICARA: The 11th International Conference on Automation, Robotics and Applications, 12-14 February, Zagreb, Croatia, Publication Chair
- 2025 ICICT: The 8th International Conference on Information and Computer Technologies, March 14-16, Hawaii-Hilo, USA, Program Co-Chair
- 2025 ISOIRS: The 5th International Symposium on Intelligent Robotics and Systems, June 13-15 Chengdu, China, Program Chair
- 2024 ISOIRS: The 4th International Symposium on Intelligent Robotics and Systems, June 14-16, Changsha, China, Program Chair
- 2024 MEEE: the 3rd International Conference on Mechatronics and Electrical Engineering, February 22-24, Athens, Greece, Program Chair
- 2024 ICICT: The 7th International Conference on Information and Computer Technologies, March 15-17, Honolulu, Hawaii, United States, Program Co-Chair
- 2023 ICICT: The 6th International Conference on Information and Computer Technologies, March 24-26, Raleigh, United States, Program Chair
- 2023 ISOIRS: The 3rd International Symposium on Intelligent Robotics and Systems, May 26-28, Changsha, China, Program Chair
- 2023 APCS: The Asia Pacific Computer Systems Conference, 24-26 March, Program Chair
- 2022 ICARA: 9th International Conference on Automation, Robotics and Applications, 10-12 February, Abu Dhabi, United Arab Emirates, Publicity Chair
- 2022 ICICT: 5th International Conference on Information and Computer Technology, 4-6 March, Zoom, Program Chair
- 2022 ICARA: 8th International Conference on Automation, Robotics and Applications, 18-20 February, Abu Dhabi, United Arab Emirates, Publicity Chair
- 2022 DSIT: 5th International Conference on Data Science and Information Technology, 22-24 July, Shanghai, China, Steering Committee Chair
- 2022 CTISC: 4th International Conference on Advances in Computer Technology, Information Science and Communications, 22-24 April, Suzhou, China, Publication Chair

⁴(ISSN 1424-8220, IF 3.031, <https://www.mdpi.com/journal/sensors>)

- 2022 ICRCV: 4th International Conference on Robotics and Computer Vision, MEVE: International Conference on Mechanical Engineering and Vehicle Engineering, 25-27 September, Wuhan, China, Conference Program Co-Chair
- 2021 AIoT on Things (ICAAIoT): First International Conference on Artificial Intelligence of Things, 3-4 September, Cyprus, Turkey, Program Committee Chair
- 2021 SCI2K21: 2nd International Conference on "Social Networking and Computational Intelligence", 17-18 December, Bhopal, India, Program Co-Chair
- 2021 INTAP: International Conference on Intelligent Technologies and Applications, 28–30 September, Agder, Norway, General Co-Chair
- 2021 INTAP Track: AI and ML in Information Security, 11-13 October, Grimstad, Norway, General Co-Chair
- 2021 CTISC: 3rd International Conference on Advances in Computer Technology, Information Science and Communications, 23-25 April, Shanghai, China, Publication Chair
- 2021 ICRCV: 3rd International Conference on Robotics and Computer Vision, MEVE: International Conference on Mechanical Engineering and Vehicle Engineering, Program Co-Chair
- 2021 APCS: The Asia Pacific Computer Systems Conference, March 11-14, Kahului, Maui Island, United States, Program Chair
- 2021- ICICT: International Conference on Information and Computer Technologies, Program Chair <http://www.icict.org/com.html>
- 2020- INTAP: International Conference on Intelligent Technologies and Applications, 28–30 September, Gjøvik, Norway, General Chair
- 2020- The 3rd International Conference on Robotics and Computer Vision (ICRCV) and The 2nd International Conference on Mechanical Engineering and Vehicle Engineering (MEVE), Nanjing, China, September 6-8, Conference Program Chair
- 2020- ICICT: International Conference on Information and Computer Technologies, Program Chair <http://www.icict.org/com.html>
- 2020 ACM- ICDDA: The International Conference on Compute and Data Analysis, 9-12 March, Program Chair
- 2020 CTISC: 2nd International Conference on Advances in Computer Technology, Information Science and Communications, Suzhou, China, 20-22 March, Publication Chair
- 2019 ACM- ICDDA: The International Conference on Compute and Data Analysis, Program Committee Chair
- 2019 ECNCT: International Conference on Electronics and Communication, Network and Computer Technology, 15-17 November, Shenzhen, China, Co-Chair
- 2007 ACSE- ICAI: International Conference on Artificial Intelligence, 25-28 June, Las Vegas, USA Session Chair

6.4 Organizer and Organizing Committee Member

2025 ICARA: IEEE The 11th International Conference on Automation, Robotics and Applications, 12-14 February, Zagreb, Croatia, Organizing Committee Member
 2023 SAIDD: Symposium on AI, Data and Digitalization, 9-10 May, Sogndal, Norway, Organizing Committee Member
 2021 ECODIS Workshop on Cybersecurity for Digital Substations, 12 March, Organizer
 2021 Lying Pen of Scribes Workshop Scientific Imaging of the Dead Sea Scrolls, 22 February, Organizer
 2021 GWRAI: Global Webinar on Robotics and Artificial Intelligence, 7-9 May, Organizing Committee Member
 2020 "Supervisory Seminar for PHDICTKES Project", 28-29 October, Webinar, Organizer
 2020 ISTRAI: World Conference on Robotics and Artificial Intelligence, 21-22 October, Rome, Organizer

Italy, Organizing Committee Member 2020 InterSecure&ECODIS projects Cyber Security workshop, NTNU, 3-4 February, 35 Participants, Organizer 2020 SMILE project workshop, NTNU, December, Organizer 2019 Kunstig Intelligens: Hvem bestemmer, og kan det gå galt?⁵, Initiator and organizer together with Forskningsetisk utvalg ved NTNU, April, Literaturhuset 2017 Capsule Video Endoscopy Workshop of IQMED project, NTNU, 31 March, 15 participants, Organizer 2016 IC1206 meeting in Gjøvik, GUC, 40 participants, Organizer 2016 Artificial Intelligence and Its Applications conference co-organized by NTNU and IKT-Innlandet, 100 participants, Organizer 2011-2016 Academic Exchange for Progress Project (⁶) Workshops, 40 participants, 11 January-16 December, Albania, Macedonia, Kosova, Organizer and Speaker 2013 B. Blobel, F. Allaert, D. Kalra, P. Pharow, P. Ruotsalainen, S. Sauermann, S. Yildirim Yayilgan, Workshop "Reuse and Secondary use of Health Data (sponsored by EFMI)", Phealth, 26 June, 50 participants, France, Organizer and Speaker 2012 B. Blobel, F. Allaert, D. Kalra, P. Pharow, P. Ruotsalainen, S. Sauermann, S. Yildirim Yayilgan, Workshop "EHRs, Mobile Technologies and Policies on the Move to Pervasive Care", MIE, 27 August, 50 participants, Italy, Organizer and Speaker 2010 The Norwegian Artificial Intelligence Conference, November, 100 participants, Gjøvik, Organizer 2007 Workshop ECMMAI 2007 "Extending Computational Cognitive Modelling to Issues of Multi-Agent Interaction", within ICAI 07 (International Conference on Artificial Intelligence), 25-28 June, 70 participants, USA, Organizer

6.5 International Advisory and Technical Program Committee Member

- 2025 ROBOVIS: The 5th International Conference on Robotics, Computer Vision and Intelligent Systems, February 25-27, Porto, Portugal, Program Committee Member
- 2024 LUHME: Language Understanding in the Human-Machine Era, October 20, Santiago de Compostela, Spain, Program Committee Member
- 2024 TICEC: 12th Ecuadorian Conference on Information and Communication Technologies, October 16-18, Ecuador, Program Committee Member
- 2024 NLPAICS: The First International Conference on Natural Language Processing and Artificial Intelligence for Cyber Security, July 29-30, Lancaster, UK, Program Committee Member
- 2023 ICAIP: The 7th International Conference on Advances in Image Processing, November 17-19, 2023, Beijing, China, Technical Program Committee Member
- 2023 SAMDE: International Symposium on Automation, Mechanical and Design Engineering, 8-10 December, Nanjing, China, Technical Committee Member
- 2023 ICCSCT: The 5th International Conference on Computer Systems and Communication Technology, November 24-25, Kuala Lumpur, Malaysia, Technical Program Committee Member
- 2022 ICCSCT: The 4th International Conference on Computer Systems and Communication Technology, November 25-26, virtual conference, Technical Program Committee Member
- 2022 SAMDE: International Symposium on Automation, Mechanical and Design Engineering, 16-18 December, Beijing, China, Technical Committee Member
- 2022 TICEC: 10th Ecuadorian Conference on Information and Communication Technologies, October 12-14, Manta, Ecuador, Loja, Ecuador, Program Committee Member
- 2022 ADIP: Asia Digital Image Processing Conference, 17-19 December, Osaka, Japan, Technical Program Committee Member
- 2022 GSERITA: The 2nd Global Summit and Expo on Robot Intelligence Technology and Applications, 19-21 September, Barcelona, Spain, Organizing Committee Member
- 2022 CVMI: International Conference on Computer Vision and Machine Intelligence, 12-13 August, IIT Allahabad, Prayagraj, India, Technical Program Committee Member

⁵<https://litteraturhusetitrondeheim.no/arrangement/kunstig-intelligens-hvem-bestemmer-og-kan-det-ga-galt/>

⁶<http://aita-al.org/event/academic-exchange-for-progress/>

- 2022 IDITR: International Conference on Innovations and Development of Information Technologies and Robotics, 27-29 May, Chengdu, China, International Technical Committee
- 2022 ICMSCE: The 5th International Conference on Mechatronics Systems and Control Engineering, 11-13 March, Chengdu, China, International Technical Committee Member
- 2021- International Conference on Robot Ethics and Standards, Porto, Portugal, International Scientific Committee Member
- 2021 The 5th International Workshop on Big Data Analytic for Cyber Crime Investigation and Prevention within IEEE International Conference on Big Data, 15-18 December, Orlando, Florida, USA, Technical Program Committee Member
- 2021 AIRC: 3rd International Conference on Artificial Intelligence, Robotics and Control, 8-10 December, The British University in Egypt, Cairo, Egypt, Technical Committee Member
- 2021 SOCO: 16th International Conference on Soft Computing Models in Industrial and Environmental Applications, 22-24 September, Bilbao, Spain, Program Committee Member
- 2021 ICAENS: 1st International Conference on Applied Engineering and Natural Sciences, 1-3 November, Konya, Turkey, Scientific Committee member
- 2021 TICEC: 9th Conference on Information and Communication Technologies of Ecuador, November 24-26, Ecuador, Scientific Program Committee
- 2021 IARIA: BRAININFO: The Sixth International Conference on Neuroscience and Cognitive Brain Information, July 18 - 22, Nice, France, Technical Program Committee Member
- 2021 IARIA: HEALTHINFO: The Sixth International Conference on Informatics and Assistive Technologies for Health-Care, Medical Support and Well being, October 03-07, Barcelona, Spain, Technical Program Committee Member
- 2021 IARIA: Cognitive: The Thirteenth International Conference on Advanced Cognitive Technologies and Applications, 18 - 22 April, 2021, Porto, Portugal, Technical Program Committee Member
- 2021 RCAE: 4th International Conference on Robotics, Control and Automation Engineering, Wuhan Institute of Technology (Liufang Campus), Wuhan, China, 4-6 November, Technical Program Committee Member
- 2021 AMEE: 4th International Conference on Advanced Mechanical and Electrical Engineering, Wuhan Institute of Technology (Liufang Campus), Wuhan, China, 4-6 November, Technical Program Committee Member
- 2021 ICSIPC: International Conference on Signal Image Processing and Communication, Chengdu, China, 16-18 April, Technical Program Committee Member
- 2021 IntelliSys: Intelligent Systems Conference, 2-3 September, virtual, Technical Program Committee Member
- 2021 Computing Conference 2021, 15-16 July, London + virtual, Technical Program Committee Member
- 2021 CCEAI: 5th International Conference on Control Engineering and Artificial Intelligence, 14-16 January, Phuket, Thailand, Technical Program Committee Member
- 2020 CyberHunt: International Workshop on Big Data Analytics for Cyber Threat Hunting, 10-13 December, Oslo.
- 2020 ICCSCT: The 3rd International Conference on Computer Systems and Communication Technology, August 20-21, Guangzhou, China, Technical Program Committee Member
- 2020-2021 ROBOVIS: International Conference on Robotics, Computer Vision, and Intelligent Systems, 4-6 November, virtual, Program Committee Member

- 2020 CRC: The 5th International Conference on Control, Robotics and Cybernetics, 16-18 October, Wuhan, China, Technical Program Committee Member
- 2020 IntelliSys: Intelligent Systems Conference, 3-4 September, Amsterdam, Netherland and virtual, Technical Program Committee Member
- 2020 The 4th International Workshop on Big Data Analytic for Cyber Crime Investigation and Prevention, IEEE International Conference on Big Data, 10-13 December, virtual, Technical Program Committee Member
- 2020 ICMAS: International Conference on Mechanical and Aerospace Systems, 12-14 December, The British University in Egypt, Cairo, Technical Program Committee Member
- 2020 UPCON: 7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering⁷, 27-29 November, MNNIT Allahabad, India, Technical Program Committee Member of Machine Learning/Information System
- 2020 BCCA: The Second International Conference on Blockchain Computing and Applications, 2-5 November, Antalya, Turkey, Technical Program Committee Member
- 2020 CVIP: 5th International Conference on Computer Vision & Image Processing, 16-18 October, Allahabad, India, International Advisory and Technical Program Committee Member
- 2020-2021 ADIP: Asia Digital Image Processing Conference, 18-20 December, Kyoto, Japan, Technical Program Committee Member
- 2020 ITCVT: The Third International Workshop on Intelligent Transportation and Connected Vehicles Technologies, 20-24 April, Budapest, Hungary in conjunction with the 32th IEEE/IFIP Network Operations and Management Symposium (NOMS 2020), Technical Program Member
- 2020 ICAIML: International Conference on Artificial Intelligence & Machine Learning: Exploring the Impact, Advancement, Techniques and Applications, International Advisory Board Member
- 2020 LOD: The Sixth International Conference on Machine Learning, Optimization, and Data Science, 19-22 July, Certosa di Pontignano, Siena – Tuscany, Italy, Program Committee (PC) Member
- 2020 IARIA-COGNITIVE: The Twelfth International Conference on Advanced Cognitive Technologies and Applications, 26-30 April, Nice, France, PC Member
- 2020-21 FTC: The Future Technologies Conference, Vancouver, Technical Program Member
- 2018- IARIA- BRAININFO: International Conference on Neuroscience and Cognitive Brain Information, Technical Committee Member
- 2018- ICICT: International Conference on Information and Computer Technologies, Technical Committee Member
- 2018- ACM- ICDDA: The International Conference on Compute and Data Analysis, PC Member
- 2018- Springer- SECITC: International Conference on Information Technology and Communication Security, PC Member
- 2018- Springer- LOD: International Conference on Machine Learning, Optimization, and Data Science, PC Member
- 2017 IEEE- INTRICATE SEC: International Workshop on Security Intricacies in Cyber-Physical Systems and Services PC Member
- 2017 IARIA- SMGSP: Smart Micro-Grid Systems Security and Privacy, PC member
- 2017- IEEE- SSTM Track in WETICE: International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises, PC Member

⁷[Http://www.mnnit.ac.in/upcon2020/](http://www.mnnit.ac.in/upcon2020/)

- 2017- IARIA eTELEMED: International Conference on eHealth, Telemedicine, and Social Medicine, PC Member
- 2007- ESAS: The IEEE Workshop on Engineering Semantic Agent Systems, PC Member
- 2016- IARIA- WEB: International Conference on Building and Exploring Web Based Environments, PC Member
- 2016 IARIA- GLOBALHEALTH: International Conference on Global Health Challenges, PC Member
- 2013-15 IARIA- SEMAPRO: International Conference on Advances in Semantic Processing, Technical Program Committee
- 2009-10 SCS- SpringSim: Spring Simulation Multi-Conference, International Program Committee
- 2008-09 SCS- SummerSim: Summer Simulation Multiconference, International Program Committee

6.6 Reviewer in Conferences

- 2024 World Journal of Gastroenterology, Reviewer
- 2024 Workshop LUHME: Language Understanding in the Human-Machine Era, 20 October, Santiago de Compostela, Spain, Reviewer
- 2021 CTISC: 3rd International Conference on Advances in Computer Technology, Information Science and Communications, 23-25 April, Shanghai, China, Reviewer
- 2020- Asia Pacific Institute of Science and Engineering, <https://www.apise.org/>, Reviewer
- 2018- IEEE and EURASIP - EUVIP: European Workshop on Visual Information Processing, Reviewer
- 2017 APR- SCIA: The Scandinavian Conference on Image Analysis, Reviewer
- 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems, Reviewer
- 2015 IEEE-CVCS: Colour and Visual Computing Symposium, Reviewer
- 2012-16 ACM-WIMS: International Conference on Web Intelligence, Mining and Semantics, Reviewer
- 2012- EFMI-Phealth: International Conference on Wearable, Micro and Nano Technologies for Personalized Health, Reviewer
- 2009 ICKD: The International Conference on Knowledge Discovery, Reviewer
- 2008 EuroCogSci: The European Cognitive Science Conference, Reviewer
- 2007 19th Annual Space Design Competition at STAIF-2007 the Space Technology and Applications International Forum, The University of New Mexico, Albuquerque, 12 February, Judge
- 2005 ECML: European Conference on Machine Learning, Reviewer
- 2005 IKS: International Conference on Knowledge Systems, Reviewer

7 Grant Proposal Reviews

- 2019- Expert Evaluator of EU Horizon2020 Programme
- 2013- COST Expert to participate in the evaluations of COST activities

8 Membership

- Medlem av nasjonal referansegruppe for samfunnssikkerhet i perioden 1. juli 2024 til 30. juni 2027
- 2022-2024 Regionalt redelighetsutvalg for Helse Midt-Norge RHF og NTNU
- 2021- Participant in Cost Action CA16101
- 2021- Member of Research Group Leaders Group, IIK
- 2020- Scientific board member of the NTNU strategic area: Data Science
- 2020- Head of Research Group MR PET: Multidisciplinary Research group on Privacy and data protEcTion
- 2020- Trondheim ACM Women Chapter Member
- 2020- Management Committee Member from Norway to COST Action CA19102
- 2020- Member of IEEE and IEEE Computational Intelligence Society
- 2020- Member of the Management Board of the METICOS project
- 2019- Member of the Management Board of the Lying Pen of Scribes Project
- 2019- Member of the Ethics Board of the Lying Pen of Scribes project
- 2019- Member of the Advisory Board of Applied Research Ethics Programme from the Faculty of Information Technology and Electrical Engineering
- 2018-2024 Member of the Research Integrity Committee of NTNU
- 2018- Head of Ethics board of the Horizon2020 SMILE project
- 2018 Member of the advisory board of the Language teaching of immigrant children using robotics (LTICR) project
- 2017- Member, The International Association for Pattern Recognition (IAPR)
- 2016- Member of the SMILE Horizon2020 Project management board
- 2016- Member of ECSO‘ Support to SMEs, coordination with countries (in particular East EU) and regions‘ Working Group
- 2013-2017 Management Committee member of Cost action IC1206
- 2013 Steering committee deputy member, GUC
- 2015- Deputy member of CCIS Management Board, GUC and NTNU
- 2011- Member of the Norwegian Biometrics Laboratory, NTNU
- 2010- Steering committee member of Norwegian Artificial Intelligence Society, branch of the European Association for Artificial Intelligence (EurAI)
- 2008-2009 Coordinator of Administrative Data Management Study in collaboration with Stud-iesenteret, HIHM ⁸
- 2006- Member of the Norwegian Association for Image Processing and Pattern Recognition (NO-BIM)
- 2005- Member of the Norwegian Association for Researchers (Forskerforbundet)
- 2006-2009 Head of Computer Science Dept. HIHM
- 2000- Graduate Student advisor for more than 27 + 5 (in progress) MSc, 2 + 2 (periods) + 4 in (progress) PhD, 10s of Postdoc and visiting researchers, NTNU, GUC, HIHM and EGE

⁸<http://www.studiesenteret.no/>

9 Keynote Speaker, Invited Speaker, Speaker

- 2023 Artificial Intelligence, Cyber Security and Power Networks: the IEC 61850 Standard, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING 30 November-2 December, Online & Bursa, Turkey, Keynote Speaker.
- 2023 Scoping an ethical framework for information Systems while swimming in the academic waters, 1st International Conference on Women Development in Engineering Science & Technology, 3-5 October, Jamshoro, Pakistan, Keynote Speaker
- 2023 AI & CyberSecurity. Security Divas, 4-5 May, Gjøvik, Norway, Invited Speaker
- 2023 AI and CyberSecurity, The 6th International Conference on Information and Computer Technologies, 24-26 March, Raleigh, United States, Invited Speaker
- 2023 AI & CyberSecurity. NSM, 6 March, Oslo, Norway
- 2023 AI and CyberSecurity, 9th International Conference on Automation, Robotics and Applications, 10-12 February, Abu Dhabi, United Arab Emirates, Invited Speaker
- 2022 MR PET research group activities and PhD involvement, PhDICTKES workshop, 5 September, NTNU Gjøvik, Invited Speaker
- 2022 Privacy and data protection in energy infrastructure, Power System Operation and Analysis (PSOA) - NTNU Group Meeting, 29 September, Invited Speaker
- 2022 Image Processing and Machine Learning at MRPET, ADIP: Asia Digital Image Processing Conference, 17-19 December, Osaka, Japan, Invited Speaker, <http://www.adip.org/>
- 2022 Cyber Security Concepts in Power Networks: Digital Substation Case Study from Norway, Second International Conference on Power, Control and Computing Technologies, (ICPC²T) 1 – 3 March, 2022, IEEE Bombay Section, Keynote Speaker
- 2021 Robotics and AIot: technical and ethical challenges, ICRES 2021: the sixth edition of the International Conference on Robot Ethics and Standards, Keynote Speaker
- 2021 Image Processing and Machine Learning in Healthcare, ADIP: Asia Digital Image Processing Conference, 18-20 December, Kyoto, Japan, Invited Speaker, <http://www.adip.org/2021.html>
- 2021 Artificial Intelligence and Machine Learning in Healthcare now and towards IoT, ISTRAI, 23-24 March, Czech Republic⁹, Keynote Speaker
- 2021 Preliminary Analysis of Digital Substation on Cyber Security, ECODIS Workshop on Cybersecurity for Digital Substations, 12 March, Speaker
- 2021 Material Analysis, Feature Extraction and Classification, Workshop Scientific Imaging of the Dead Sea Scrolls, 22 February, Speaker
- 2020 Co-supervision Experiences, Supervisory Seminar for PHDICTKES Project, 28-29 October, Webinar, Speaker
- 2020 Cybersecurity issues in digital substations – a short review, InterSecure&ECODIS projects Cyber Security workshop, NTNU, 3-4 February, Speaker
- 2020 Artificial Intelligence and Machine Learning Activities and Results in Healthcare Research at IIK, 6 November, Norwegian Open AI Laboratory, Invited Speaker ¹⁰
- 2020 Kunstig intelligens/KI, maskinl ring/ML og dyp l ring i maritim sektor. Hva er potensialet?, Course given at "Digitalisering og cyber sikkerhet" for GCE Blue Maritime Cluster, 9 October
- 2020 Cyber-Security Gaps in a Digital Substation: From Sensors to SCADA, ECODIS&Cybwin Workshop, 26 May

⁹https://inovscitech.com/speakers?conf_id=42

¹⁰<https://ntnu.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=013feb63-7e23-46f8-8f1e-ac6b00db0cdb&start=undefined>

- 2020 Presentation of AI&DS Activities of my group, CISaR-NTNU workshop, 29 January, Gjøvik, Invited Speaker
- 2020 Implementing Biometrics at the Border Panel, Identity Week, 16-18 November, London & Virtual, Invited Speaker and Panelist
- 2020 ACM-W Ankara (ACM-W professional chapter of Turkey), the Grad Cohort 2020 Women Cohort, Invited Speaker and Head of Panel on Career paths, 11-12 April, Turkey (postponed due to corona pandemic)
- 2019 IoT & Security: Researchers' Perspective, IOT-OPEN.EU SUMMIT, 18 June, Brussels, Keynote Speaker
- 2019 ENEFM: 5th International Congress on Energy Efficiency and Energy Related Materials", 22-28 October, Mugla, Turkey, Invited Speaker
- 2019 International Conference on Intelligent Technologies and Applications INTAP, 6–8 November, Keynote Speaker
- 2019 2nd workshop of Human Rights in the Falstad Center and presented the SMILE Action technologies and the related challenges to Human Rights and privacy, 28 March, Invited Speaker
- 2015 PhD seminar of the university SEEU, Invited Speaker, Macedonia 2015
- 2013 Phealth, Tallinn Estonia, Session Speaker
- 2012 Secure Technologies: Where and Why?, NISLAB Opening, GUC, Speaker
- 2012 What is e-health - its concepts, approaches and products? Velkon: Welfare Technology Conference, 3-4 October, Trondheim, Invited Speaker
- 2011 Identity management in sport event. Security, identity theft og misuse of biometric data. Development of technology and methods, National Identity Center (NID) conference, Oslo, Invited Sepaker
- 2011 PAMIT.com: Personalized AMBient Intelligent Travel COMpanion: Its Aim, Goals and Challenges, Welfare Technology Conference, 8-9 November, Trondheim, Invited Speaker
- 2011 The PAMIT.com approach: aim, goals, and challenges, Lyon, France, PHealth, July, Invited Speaker
- 2010 SCAM: Safer Children Internet Access, RFID-RNET Worskshop, 10-11 May, Oslo, Invited Speaker
- 2010 Robots, National Security day, Norwegian Center for Information Security (NorSIS) and GUC, 22 April, 08:00-10:00, Eidsiva building in Kallerud, Invited Speaker

10 Seminars and Colloquia

- Invited as an AI expert to a seminar organized by the Digital-Frontrunner Roundtable conversation, Robots, Automation and the Growth of Smart Machines, sponsored by Google and hosted by the Global Digital Foundation, May 10, 2017
- eDemocracy 2019 conference, Athens, 12-13 December
- Cristian Rocha et al. "Deep Learning and Radiomics", Northern Lights Deep Learning Workshop. Jan.2018
- AEP project workshops ¹¹ (2011 - 2015)
- EU Horizon meeting, MEDTECH Oslo, October 2015
- IC1206 workshops

¹¹<http://aita-al.org/event/academic-exchange-for-progress/>

- ID conference, Berlin, October 2013
- Border Technologies Management Summit, Istanbul, 1-4 July 2013
- Velkon 2012
- NID 2012, Oslo
- Idendity Conference, 2012, Oslo
- Biometri Forum, 10 November 2011, Oslo
- WIMS2011
- Paris Game AI Conference — 22- 23-24 June 2011, France
- Verdikt Conference, 1-2 November 2010, Oslo
- ICT2010 – 27 September 2010, Brussels
- Paris Game AI Conference — 23-24 June 2010, France

11 Media

- Newspaper Article, Pakistan Daily Climax, related to INTAP2019
- NTNU expert in Artificial Intelligence for journalists ¹²
- News in media - EU Horizon SMILE Project, Oppland Arbeider Blad ¹³
- Article in Oppland Arbeiderblad [2] ¹⁴
- Expert opinion on 3D biometrics, TU (Tekniske Ukeblad) ¹⁵

12 Promotion, Recruitment, Thesis Evaluations

12.1 Promotion and Recruitment

- 2017- Member of many PhD and postdoc recruitment selection committees, at IIK, NTNU
- 2019 External committee member of evaluation of staff to docent promotion at Blekinge Institute of Technology, Sweden
- 2018 External committee member for the evaluation of applications for a PhD fellowship at OsloMet

12.2 PhD Theses

- 2020 Member of the PhD Evaluation Committee, Ismail Bezzine, PhD student at University Sorbonne Paris Nord [3]
- 2020 Head of PhD Evaluation Committee, Pawel Grzegorz Drozdowski, NTNU in accordance with the Norwegian PhD System [4]
- 2020 Head of PhD Evaluation Committee, Ambika Shrestha Chitrakar, NTNU in accordance with the Norwegian PhD System [5]
- 2019 Head of PhD Evaluation Committee, Pankaj Shivdayal Wasnik, NTNU in accordance with the Norwegian PhD System [6]
- 2016 Internal opponent of PhD Defense Committee, Guoqiang Li, NTNU in accordance with the Norwegian PhD System [7]
- 2016 Head of PhD Evaluation Committee, Soumik Mondal, NTNU in accordance with the Norwegian PhD System [8]

¹²<https://www.ntnu.no/forskning/eksperter/kunstig-intelligens>

¹³<https://www.oa.no/ntnu-i-gjovik/gjovik/kallerud/ntnu-sikrer-seg-millioner-fra-eu/s/5-35-375838>

¹⁴<https://www.oa.no/debatt/ntnu-i-gjovik/energibransjen/kan-du-klare-a-spare-mer-strom-enn-naboen/o/5-35-343681>

¹⁵<https://www.tu.no/>

12.3 PhD Midterm

- 2024 Member of the PhD midterm evaluation committee for Arnstein Vestad
- 2020 Member of the PhD midterm evaluation committee for Georgios Kavallieratos

12.4 MSc Theses

- 2024 Member of the evaluation committee of the MSc thesis by Rumu Rajbhandari, IDI [9]
- 2018 Member of the evaluation committee of the MSc thesis by Johnny Offerdal, IDI [10]
- 2017 Member of the evaluation committee of the MSc thesis by Alina Beliakova, IDI [11]
- 2015 External member of evaluation committee of the MSc thesis by Yasar Mumtaz, Oslo University [12].

13 Invited Courses

- 2020 Kunstig intelligens/KI, maskinl ring/ML og dyp l ring i maritim sektor. Hva er potensialet?, Course given at "Digitalisering og cyber sikkerhet" for GCE Blue Maritime Cluster, 9 October
- 2019 AI&IoT&Business, a 3 hour online lecture for the Information Resource Management (IRM3000R) BSc course at the University of South-Eastern Norway, 14 March
- 2018 10 days intense course "Artificial Intelligence" at University of Tirana to MSc students studying Information Security

14 Number of Citations to Publications

As of August, 2024, Google Scholar reports 1844 citations, h-index of 22, and an i10-index of 52.

15 Current and Future Research Interests

Current:

- AI, ML, deep learning, image processing, system analysis and design in Health.
- Smartgrids, smart microgrids, IoT, AI, ML, cybersecurity, data privacy, risk assessment in Energy.
- Privacy, ethics and regulatory frameworks, GDPR, questionnaires, interviews, ML, malware detection and classification in biometrics based systems such as border crossing technology at land borders, ski injury management systems and online social network design, development and analysis for supplying information security.
- Research based education, problem solving based education, distance learning.

Future research directions include:

- Addressing cybersecurity, data privacy, risk assessment, AI, and ML related challenges in IoT based smart (energy) grids and development of an AI based cybersecurity platform for IoT based smart power grids.
- Skin lesion classification, video capsule endoscopy image enhancement and classification, health system architecture design, mobile devices based health care systems.
- Criminal ontology development and reasoning on the ontology across application areas in information security.
- Developing AI systems that can act in an ethical and privacy preserving way.

16 Funded Project Grants

16.1 Recent and Current Projects

Year	Applicant's role	Budget (NTNU/Total)	Budget IIK	Project name	Funding agency
2017-2020	WP leader and one of the two initiators of the project and	496,875 € / 5M€	496,875€	SMILE: A Smart Mobility Approach of European Border Security	SEC-14-BES-2016 Horizon2020
2017-2020	Main applicant	718 507 NOK (Sentral EU) + 199 000 NOK	91,750€	INCENTIVE SMILE	NTNU (Sentral EU + IE faculty)
2020-2023	WP leader	~436,500 € / 5M€	436,500€	METICOS	Horizon2020
2020-2023	Main applicant	589,275+196,000 NOK	78,527€	INCENTIVE METICOS	NTNU
2017-2020	Main applicant	250,000 NOK	25,000€	INCENTIVE INTENSIVE	Horizon proposal which scored over 12, hence funded with incentives from NTNU
2019-2022	WP researcher	1,150,000 NOK / 9,600,000 NOK	115,000€	ECODIS: Engineering and Condition monitoring in Digital Substation	Research Council of Norway, ENERGIX IPN
2019-2022	WP leader	2,200,000 NOK / 9,600,000 NOK	220,000€	INTERSECURE: Security of supply in smartgrids with interacting digital systems	Research Council of Norway, ENERGIX IPN
2019–2024	WP leader	6,000,000 NOK / 28,000,000 NOK (3M -IIK, 3M-IDI)	300,000€	The Lying Pen of Scribes	Research Council of Norway, FRIPRO Toppforsk
2020-2023	WP Key Researcher	83,645 € / 909,347 € (300 KNOK funding to IIK)	30,000€	PhDICTKES	KA2 and Industry Project
2019 - 2020	Co-applicant	476.521 CZK / 476521 CZK (181 KNOK funding to IIK)	18,100€	MODUS 2: MObility for Development of UniversitieS	EU EEA Grants
2015 - 2022	Project Leader & Academic Host	333,920 € / 333,920 €	333,920€	4 projects granted: Two to Kosovo (UP and UBT) and two to UT	Erasmus+ Global Mobility
2011-2016	Project Leader & Academic Host	11,000,000 NOK / 11,000,000 NOK	1,100,000€	AEP: Academic Exchange for Progress	Ministry of Foreign Affairs Norway
2020-2023	WP leader	10 MNOK / 10 MNOK (1 M€)	(free contribution, no funding to IIK)	MAAS: Multipara meter Active Antenna Sensor	Research Council of Norway,
2015–2019	WP leader	10 MNOK / 10 MNOK (3MNOK funding to IIK)	300,000€	IQMED: Image Quality enhancement in MEDical diagnosis, monitoring and treatment	Research Council of Norway
2020-2023	WG Chair & MC member	Funding based on travels & STSMs /500,000 €	10,000€	LITHME: Language In The Human-Machine Era	COST European Cooperation in Science and Technology action OC-2019-1-23689
2013-2017	MC member	Funding based on travels & STSMs /500,000 € (to IIK)	10,000€	IC1206: De-identification for privacy protection in multimedia content	Cost Action
2016 –2024	Key Researcher of WP2 (Smart Microgrids)	Expected funding 3 MNOK for supervision of a PhD student to IIK	300,000€	CINELDI: Center for intelligent electricity	Research Council of Norway, FME programme
		~5,919,523€/20,276,646€	3,532,085€		

Assume 1 € = 10 NOK

Total budget = 20,276,646€ + CINELDI Budget

16.2 Past Educational Projects

- SMILE Bee¹⁶: 2016-. This is a project run by Prof. Dr Youngbong Seo from the Innovation Center for Engineering Education, Pusan National University, Pusan, South Korea and the other partner is Prof. El Hasani from the Department of Telecommunications, Networks and Computer Science, Chouaib Doukkali University, Morocco. The project is about improving engineering education.
- COINS: 2013-2018. Research School of Computer and Information Security) ¹⁷
- FRISC: 2012-2016. Forum for Research and Innovation in Security and Communications ¹⁸ is a network of organisations working on security in Norway.
- CIMET: 2007–2014. Colour in Informatics and Media Technology is a collaborative multiple degree master programme funded by the EU over the Erasmus Mundus programme.
- COSI: 2015–2019. Colour in Science and Industry is a collaborative multiple degree master program funded by the EU over the Erasmus Mundus program
- Since 2012 in 3DMT ¹⁹, the University Jean Monnet Saint-Etienne (France) and NTNU are combining their skills and expertise to offer a two-year Master Course in 3D Multimedia Technology (3DMT).

16.3 Past Research Projects

- HUMDIG: 2019-2019. Human Rights and Dignity: Policies and technology transforming the human rights discourse on refugees, funded by SAMKUL programme.
- Ambulance Drone: 2017-2018. funded by NTNU
- LTICR: 2017-2018. Language Teaching of Immigrant Children Using Robotics is a pre-project funded by the NFR
- SWAN: 2016-2018. Secure Access Control over Wide Area Network funded by IKTPLUSS.
- ENERGIZING: 2016-2017. A simplified 3D modelling (BIM) with gaming for digital energy efficient drift, maintenance and rehabilitation of water bone heating systems is a research pre-project funded by RFF-Inland
- SKI: 2015-2015. Development of a pilot database for handling information on injured persons in alpine facilities is funded by the Regional Research Funds Norway, Inland (RFF-Inland)
- IC1206: 2013-2017. De-identification for privacy protection in multimedia content
- INFUSE: 2012-2015. Development of Intelligent Search Motor is a project funded by the EU Eurostars programme.
- SPEED: 2011-2012. Sport EvEnt iDentity Management is a project funded by RFF-Inland
- DRONE: 2010–2010. Mobile Distributed Agents for Investigating Scenes of Evidence is a small project funded by the NFR and GUC.
- Dictionary: 2008-, Modeling and Simulation Dictionary Project.
- GED: 2007-2009. A Game Engine Development: Towards a unified platform for game development
- Security: 2005. Security Issues in Adaptive Distributed Systems, funding from HIHM.

17 Teaching

17.1 Courses Taught

¹⁶<http://projectbee.co.kr/>

¹⁷<https://coinsrs.no/>

¹⁸<https://www.frisc.no/>

¹⁹<http://master-3dmt.eu/>

YEAR	Name	Level	Semester	ECTS	Place	Teaching Methods	Responsibility	Content	Students/Study Programme
2011-	IMT6171 Real-time AI for robotics and simulated environments	PhD	Spring	5	GUC and NTNU	Lectures	Main	Robotics and simulation control, decision making	3 (CS & IS)
2010-	IMT4305 Image Analysis and Processing	MSc	Fall	7.5	GUC and NTNU	Lectures and Labs	Main	Fundamentals, transformations, filtering, spatial and Fourier domain, Restoration, Reconstruction, Segmentation, recognition	15 (CS & IS)
2009-	IMT3591 Artificial Intelligence	BSc/ MSc	Spring	10	GUC, NTNU and UT	Lectures, labs, assignments and project	Main	Symbolic and subsymbolic AI algorithms, applications	45 (CS & IS)
2009-	IMT4303 Content-based indexing and Retrieval	MSc	Fall	7.5	GUC and NTNU	Lectures, labs, assignments and project	Main	Algorithms, performance, query and feedback, image, video, audio, MPEG-7	Varied upto 45 (CIMET, COSI, 3DMT, MACS CS,IS)
2009-2011	IMT3601 Game Programming	BSc	Fall	10	GUC and NTNU	Lectures, labs, assignments	Main	Design patterns, physics, graphics, characters, mechanics, project management etc.	40 (GP)
2009-2012	TPD4168 Game Design	BSc	Fall	7.5	GUC	Lectures, labs, assignments	Main	Game development methodology, documentation, game mechanics, engines.	40 (GP)
2008-2009	Mathematics 2	BSc	Fall	15	HIHM	Lectures, labs, assignments	Main	Numbers, algebra, functions	15 (CS, GP)
2009	Operating Systems	BSc	Spring	10	HIHM	Lectures, labs, assignments	Main	File systems, programs, processes, threads, Windows, Linux, hardware	30 (CS, GP)

2006-2008	Data Structures and Algorithms	BSc	Fall and Spring 2006	10	HIHM	Lectures, labs, assignments	Main	Search and sort algorithms, recursion, complexity, travels, best path, minimum tree spanning	30 (CS, GP)
2007	Data Communications 2	BSc	Fall	10	HIHM	Lectures, labs, assignments	Main	Communication protocols, serial and parallel communication, Ethernet, LAN, WAN- UTP and TCP protocols, WWW, HTTP.	35 (CS, GP)
2004	Sub-symbolic Artificial Intelligence Methods	MSc	Spring and Fall	7.5	NTNU	Lectures, labs, assignments	Lectured 80 % of the course	Neural Networks, genetic programming, self-organizing networks, applications	45 (CS)
2001-2002	Data Structures and Algorithms	BSc	Fall	10	EGE	Lectures, labs, assignments	Main	Search and sort algorithms, recursion, complexity, travels, best path, minimum tree spanning	30 (CS)
2002	Discrete Structures for Computer Science	BSc	Fall	10	EGE	Lectures, labs, assignments	Main		30 (CS)
2000	15-440\640 Distributed Systems	MSc	Fall		CMU	Labs, assignments	Teaching Assistant	Communication and remote procedure call, caching, fault tolerance failures,	150 (CS)
1998	Introduction to Computer Sciences	BSc	Fall	10	EGE	Lectures, labs, assignments	Main		80 (CS)

17.2 Høgskole pedagogikk certificate

Karakterutskrift

Navn: **Yildirim-Yayilgan, Sule**
Studieprogram: **Høgskolepedagogikk**

Fnr: 070771 23428

Studenten har oppnådd følgende resultater ved Høgskolen i Innlandet :

Emne		Termin	Studie- poeng	Karakter
Andre emner				
2HPED01	Høgskolepedagogikk	2008 vår	15	Bestått

Sum: 15,0

27. januar 2021

Milla Olsen
underskrift
 Høgskolen
i Innlandet

Karakterutskrift

Navn: **Yildirim-Yayilgan, Sule**

Fnr: 070771 23428

Studiepoeng- og karaktersystem

Studieåret varer normalt 10 måneder. Et fullt studieår er beregnet til 1500 - 1800 arbeidstimer og 60 studiepoeng.

Det norske karaktersystemet består av to karakterskalaer: en skala med karakterene bestått og ikke bestått og en gradert bokstavkarakterskala fra A til E for bestått og F for ikke bestått. For den graderte skalaen gjelder følgende kvalitative beskrivelser:

A	Fremragende	Fremragende prestasjon som klart utmerker seg. Kandidaten viser svært god vurderingsevne og stor grad av selvstendighet.
B	Meget god	Meget god prestasjon. Kandidaten viser meget god vurderingsevne og selvstendighet.
C	God	Jevnt god prestasjon som er tilfredsstillende på de fleste områder. Kandidaten viser god vurderingsevne og selvstendighet på de viktigste områdene.
D	Nokså god	En akseptabel prestasjon med noen vesentlige mangler. Kandidaten viser en viss grad av vurderingsevne og selvstendighet.
E	Tilstrekkelig	Prestasjonen tilfredsstillende minimumskravene, men heller ikke mer. Kandidaten viser liten vurderingsevne og selvstendighet.
F	Ikke bestått	Prestasjon som ikke tilfredsstillende de faglige minimumskravene. Kandidaten viser både manglende vurderingsevne og selvstendighet.

Karakterskalaen er brukt absolutt. Det vil si at vurderingene er kriteriebaserte.

17.3 Pedagogisk Mappe Utvikling Certificate



Kunnskap for en bedre verden

Norges teknisk-naturvitenskapelige universitet
Fakultet for samfunnsvitenskap og teknologiledelse
Institutt for pedagogikk og livslang læring, Uniped

Sule Yildirim Yayilgan

har gjennomført

Modul innenfor NTNUs program for utdanningsfaglig basiskompetanse

Innenfor NTNUs program for utdanningsfaglig basiskompetanse tilbys et utvalg valgfrie moduler. Modulene utvikles i samråd med Uniped, fagmiljøer på fakultetene og støtteenheter i henhold til krav og retningslinjer for modulutvikling. Studieprogramrådet for universitetspedagogikk har det faglige ansvaret for godkjenning av modultilbudet innenfor programmet.

Følgende modul er fullført/bestått våren 2020:

Utvikling av pedagogisk mappe (20 timer)

Beskrivelse av modulen:

Kravene til utdanningsfaglig kompetanse har blitt skjerpet gjennom endring i forskrift om tilsetting og opprykk i undervisnings- og forskerstillinger. Ved både søknad om stilling, og opprykk til stilling vil det være krav om at den utdanningsfaglige kompetansen dokumenteres i en samlet fremstilling i form av en pedagogisk mappe. I denne modulen vil deltakerne få mulighet til å starte arbeidet med å utvikle sin egen pedagogiske mappe. Vi vil legge til rette for diskusjoner og refleksjoner knyttet til hva utdanningsfaglig kompetanse kan være, hvordan denne kan utvikles over tid, og hvordan utviklingen kan dokumenteres og vurderes.

Det er viktig å påpeke at det å utvikle en pedagogisk mappe fra start vil ta mye mer tid enn de 20 timer i denne modulen.

Trondheim 23. juni 2020

Marte Bratseth Johansen
modulansvarlig

Marit R. Pettersen
førstekonsulent

18 Supervision

18.1 Supervised PhD theses

I have supervised two PhD students as principal supervisor and one PhD student as co-supervisor to completion. I have co-supervised 2 other PhD students for periods. I have an ongoing PhD student in Smartgrid Cybersecurity, an ongoing PhD student in the METICOS project and an ongoing PhD student in the SOCYTI project and an ongoing PhD student related to cultural aspects of Cybersecurity. I also co-supervise few PhD students

Zenun Kastrati: Dr. Kastrati defended his thesis for the degree of PhD at NTNU, in February 2018 [13]. I was the principal supervisor with Prof Rune Hjelsvold was a co-supervisor. The thesis resulted in 6 journal papers, 4 book chapters and 1 extended abstract.

Ahmed Mohammed Kedir: Dr. Kedir started his PhD work with working title “Capsule video endoscopy” [14] in January, 2016. I am the principal supervisor, and Prof. Marius Pedersen is the co-supervisor. The PhD thesis is defended on 03.12.19 successfully.

Alireza Pourafzal: Dr. Poufzal defended his thesis for the degree of PhD at NTNU, in December, 2023. I co-supervised Dr. Alireza Pourafzal’s PhD work together with Principal supervisor Prof. Michael Cheffena for the MAAS project [15].

Doney Abraham: I supervise Doney Abraham’s PhD work [16]. I am the principal supervisor.

Sarang Shaikh: He is the new PhD student recruited for the METICOS project. He is supervised by me as the main supervisor and two other colleagues as co-supervisors.

Ehtesham Hashmi: I supervise Ehtesham Hashmi’s PhD work. I am the principal supervisor.

Guro Olsborg: I supervise Guro Olsborg’s PhD work. I am the principal supervisor.

I have also co-supervised **Ogerta Elezaj**, **Romina Muka** and **Linda Wendelberg** for periods.

18.2 Supervised MSc theses

I have supervised a total of 41 master theses since 2007. Few more students are in supervision. Students were supervised at GUC, NTNU and several other international universities:

Linn Qianlu Hushov [17] with co-supervisor Dr. Mohamed Abomhara

Emilie Dybendal Aulie [18] with co-supervisor Dr. Livinus Nweke

Erik Prebensen [19]

Rolf Martin Tønnesen [20] co-supervisor Dr. Alireza Poufzal

Bjørn Vidar Fasmer Gulbrandsøy [21]

Kevin Hjelmtveit [22]

Fridtjof Storm Flaate [23]

Andreas Aarrestad & Santhosh Shanmugam [24] with co-supervisor Sarang Shaikh

Kristian Hoff & Eirik Jensen [25] with co-supervisor Dr. Mohamed Abomhara

Dominic Huong Duy Nguyen [26]

Alen Bhandari [27] with co-supervisor Sarang Shaikh

Vegard Andreas Ovredal [28]

Quentin Mouret and Maël Nedellec [29]

Bendik Wermundsen Mork [30] with co-supervisor Dr. Mohamed Abomhara

Claudia Haubold [31]

Nan Zhang [32]

Blend Arifaj [33] with co-supervisor Prof. Jon Hardeberg and Prof. Lule Ahmedi (UP)

Doney Abraham [34] with co-supervisors

Anahita Golrang [35]

Nita Mulliqi visited NTNU during spring 2019 for 5 months with the Erasmus+ ICM scholarship + funding from my NTNU project budget [36]

Thomas Hatlebrekke [37]

Alexa Mosegui [38]
Lam Yat Hong [39]
Mao Ruiquan [40]
Yang Du [41]
Thomas Mellemseter [42]
Ani Khachatryan [43]
Margarita Khokhlova [44]
Limamou Gueye [45]
Vivek Sharma [46]
Adnan Abdalla [47]
Gerardo Diego Espinosa De La Riva [48]
Kamer Vishi [49]
Victor Torres [50]
Sveinung Monsen [51]
Sindre Berg Stene [52]
Henning Veflingstad [53]
Anders Oredson [54]
Ero Stig Karlsen [55]

I also remotely supervised the following MSc students:

Brigite Peposhi in University of Tirana ([56])
Houssam Hajoui in Université Chouaib Doukkali ([57])

18.3 Supervised MSc course projects

(research planning course ²⁰, research planning course ²¹, specialization project ²²)

Ingunn Furuberg's research project planning work in Fall 2022 on Understanding cognitive aspects of border technology acceptance.

Husamu-Aldeen Alkhafaji and Buket Karakas's research project planning work in Fall 2022 on Understanding the socio-cultural framework for technology acceptance in border control technologies.

Dominic Huong Duy Nguyen's research project planning work in Fall 2021 on Integrating Privacy by Design principles into Software Development.

Øystein Helle's specialization project in Fall 2020 on Privacy-preserving machine learning for health institutes.

Quentin Mouret's specialization project in Fall 2020 on Adversarial attacks against deep learning algorithms and mitigation methods.

Maël Nedellec's specialization project in Fall 2020 on Adversarial attacks against deep learning algorithms and mitigation methods.

Binu Melit Devassy's advanced project work course in Fall 2018 together with Jon Yngve Hardeberg. He is a MSc student whom studied his third semester at NTNU being enrolled at the Franco-Norwegian Master Program 3DMT. His advance project work was in the area of melanoma detection using machine learning. This work is published in ([58]).

Cristian Rocha's advanced project course work in Fall 2018. He is a MSc student whom studied his third semester at NTNU being enrolled at the Franco-Norwegian Master Program 3DMT. His advance project work was in the area of melanoma detection using machine learning. He submitted a course report with the title "Deep learning for skin lesion classification: a comparison between the performance

²⁰<https://www.ntnu.edu/studies/courses/IMT4894#tab=omEmnet>

²¹<https://www.ntnu.edu/studies/courses/IMT4205#tab=omEmnet>

²²<https://www.ntnu.edu/studies/courses/TTM4502tab=omEmnet>

of segmented and non-segmented images”.

Sabri Bolkar’s advanced project course work in Fall 2018 together with Prof. Faouzi A. Cheikh. He is a MSc student whom studied his third semester at NTNU being enrolled at the Franco-Norwegian Master Program 3DMT. His advance project work resulted in a journal article ([59]).

Anahita Mohammadi Golrang’s research planing course work in Spring 2019 and the work resulted in a report titled ”The application of multi-objective feature selection in Android malware detection systems”.

18.4 Supervised BSc theses

I have supervised 8 BSc theses. At GUC and HIHM, bachelor thesis is most often conducted in groups, so this totals to a number of 10 students. Most of these theses were written for the degree of Computer Science and Game Programming. Currently I supervise and co-supervise two more BSc thesis, namely ”Foreldrekontroll av barn på nett” and ”How safe are children in Online Social Networks?” respectively.

The thesis [60] resulted in a book chapter ([61]). The other BSc theses supervised are [62], [63], [64] and [65]. The last thesis is co-supervised with Prof. Pavel Skrabanek from University of Pardubice and it resulted in a journal paper ([66]). Two more [67] and [68] are being supervised in cooperation with UP.

Besides, Alexandre Cros from ENSICAEN ²³ has completed his BSc work ([69]) during period 15.05.13 – 15.08.13 under my supervision while he had been an exchange student at GUC.

18.5 Internships

Spring 2024, 2023, 2022, 2021 MSc students from ENSICAEN completed internships under my supervision.

Spring 2021: Anass El Quahabi, 15/04/2021- 26.08.2021, ESIREM 4th year BSc student completed his internship under my supervision.

Summer 2020 (Postponed due to Covid-19): Buse Demirci, Beril Erzurum, Cankaya University, Istanbul, in cooperation with Assistant Prof. Gul Tokdemir, Computer Engineering Department

Spring 2019: Gunes Cepic: Middle East Technical University BSc student [70]

Semesters between 2011-2018: Coordination of internships of approx. 30 BSc and MSc exchange students in cooperation with IT companies in Oppland Region (with Jan Erik Østvang, CEO of SecCon AS) within AEP and Erasmus+ projects (Appendix ??).

²³<https://www.ensicaen.fr/>

19 Bibliography

Journal Publications

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