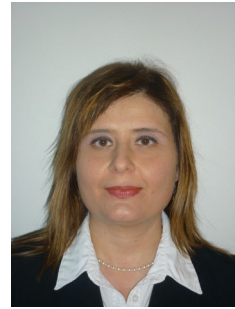


Curriculum Vitae

Name : Yildirim-Yayilgan
First Name : Sule
DOB : 07/07/1971 (Isparta, Turkey)
Citizenship : Turkish
Civil Status : Married



Current Position

- Associate Professor at the Norwegian University of Science and Technology, NTNU i Gjøvik
- Member of the Norwegian Information Security Lab / CCIS
- Member of the Norwegian Biometrics Lab.

Education/Work

Jan 2016 : Assoc. Prof, NTNU i Gjøvik
Jan 2015 : Deputy member of CCIS Management Board,
Jan 2015 – Jan 2017 Deputy member of GUC\NTNU Management Board
July 2009 / Dec 2015 Assoc. Prof, Gjøvik University College (Norway)
August 2005 / July 2009 : Assoc. Prof, Hedmark University College (Norway)
Jan 2003/ Jul 2005: Postdoc, Artificial Intelligence Department, NTNU (Norway)
Oct 2002: PhD, Computer Science , Ege University, Izmir (Turkey).
Sept 2000 / June 2001 : Visiting Scholar, Carnegie Mellon University, Robotics Institute (USA).
Sept 1999 / Dec 1999: Visiting Scholar, Artificial Intelligence Department, NTNU (Norway)
Sept 1995 : Master of Science in Computer Engineering, Izmir (Turkey) .
August 1993: Bachelor of Science degree in Computer Engineering, Izmir (Turkey).

Administration Activities

2018 External committee member for the evaluation of applications for a PhD fellowship at OsloMet
2018-Member of the Research Ethics board of NTNU
2016-Member of the SMILE Horizon2020 Project management board
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 ECSO 'Support to SMEs, coordination with countries (in particular East EU) and regions' Working Group
2013- COST Expert to participate in the evaluations of COST activities
2013-2017 Steering committee deputy member, GUC and NTNU
2015- Deputy member of CCIS Management Board, GUC and NTNU
2011-Member of the Norwegian Biometrics Lab., 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 Studieret, HIHM, (<http://www.studiesenteret.no/short-in-english.150480.no.html>)
2006-Member of the Norwegian Association for Image Processing and Pattern Recognition (NOBIM)
2005-Member of the Norwegian Association for Researchers (Forskerforbundet)
2006-2009: Head of Computer Science Dept. Hedmark University College

Funded Research and Scientific Activities

- **2019-2022:** WP leader: **Security of supply in smartgrids with interacting systems**, coordinated by Lyse elnet AS, funded by the Research Council of Norway, Energix Programme (Industrial Innovation Project Fund), budget: 9.5MNOK
- **2019-2022:** Partner: Engineering and Condition monitoring in Digital Substation, coordinated by STATNETT SF, funded by the Research Council of Norway, Energix Programme (Industrial Innovation Project Fund), budget: 9.6MNOK
- **2017-2021:** WP leader: **SMILE- SMart mobility at the European land borders**, by the European Commission's H2020 Framework Programme, SEC-14-BES-2016 Towards reducing the cost of technologies in land border security applications, budget: 3MEuro

- **2016:** Partner, CINELDI, Centre for intelligent electricity distribution (CINELDI) - to empower the future smart grid, <http://www.sintef.no/projectweb/cineldi/> budget: 360 MNOK
- **2016:** Project leader, **Energizing: A simplified 3D modelling (BIM) with gaming for digital energy efficient drift, maintenance and rehabilitation of water bone heating systems"** (Pre-project - RFFINNL) budget: 500KNOK
- **2015-2019:** Coordinator, **ERASMUS+ GLOBALMOBILITY**, funded by EU, budget: 200KEuro
- **2015-:** Workpackage leader, **IQ-MED** Project funded by IKT-PLUS, Norway, budget: 16MNOK
- **2015-:** Workpackage leader, **SWAN** Project funded by IKT-PLUS, Norway, budget: 23MNOK
- **2013-:** Partner, **mobile based digital registration tool for registering ski injuries**, funded by VRI/KM.
- **2013 -:** Partner Member, **ICT COST Action IC1206, De-identification for privacy protection in multimedia content**
- **2012-:** Partner, INFUSE, **Development of Intelligent Search Motor**, Eurstars Project, budget: 2M Euro.
- **2011-:** Project GUC Coordinator, Herd/ICT, **AEP Academic Exchange Programme** (aepmak.org), funded by the Ministry of Foreign Affairs Norway, budget: 11 MNOK
- **2011-12:** Coordinator Project: **SPEED, Sport Event Identity Management**, funded by RFF Innlandet.
- **2010-12:** Project Co-manager, **Mobile Distributed Agents for Investigating Scenes of Evidence**, funded by Gjøvik University College and Research Council of Norway.
- **2009:** Coordinator, Project: **RENATE, A project which proposes a social platform where academic institutions can meet and collaborate on solutions to problems regarding the IT-studies in Norway**. Obtained 230.000 kr funding.
- **2007-2009 :** Project Manager, GED: A Game Engine Development, funded by Hedmark University College and Research Council of Norway.
- **2005-:** Supervision of Bsc, MSc, PhD students with topics in Artificial Intelligence, Information Security
- **2008- :** Modeling and Simulation Dictionary Project, http://www.site.uottawa.ca/~oren/SCS_MSNet/simDic.htm I am in the Turkish team.
- **2005:** Project: Security Issues in Adaptive Distributed Systems. Obtained internal funding of 90000 kr from Hedmark University College, NORWAY, 01 Dec. 2005.
- **2002:** First Prize Winner with PhD work in Category of Physical and Mathematical Sciences, EBILTEM (Ege University Science and Technology Center), Project Competition and Exhibition, November 2002. The evaluation committee included people from industry.
- **2001:** NATO A-2 Research Scholarship from the Scientific and Technical Research Council of Turkey. I visited Carnegie Mellon University, Robotics Institute, Sep. 2000 – Jan. 2001.
- **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 from Turkey. I visited Norwegian University of Science and Technology, Sep. 1999 – Dec. 1999.

Editorial and Workshop\Conference Organization

- Workshop Organization: Capsule Video Endoscopy Workshop, NTNU, 31st March 2017.
- Academic Exchange for Progress Project (aepmak.org) Workshops Organization (January 2011-December2016).
- B Blobel, F Allaert, D Kalra, P Pharow, P Ruotsalainen, S Sauermann, Ş Yildirim Yayilgan, Workshop Organization: "Reuse and Secondary use of Health Data (sponsored by EFMI)", Phealth2013, 26 June.
- B Blobel, F Allaert, D Kalra, P Pharow, P Ruotsalainen, S Sauermann, Ş Yildirim Yayilgan, Workshop Organization: "EHRs, Mobile Technologies and Policies on the Move to Pervasive Care", 27 August, MIE2012.
- Organizer for the Norwegian Artificial Intelligence Conference, held in Gjøvik, November, 2010.
- Ş Yildirim Yayilgan, Workshop Organization: ECM_MAI 2007, (**Programme**) Extending Computational Cognitive Modelling to Issues of Multi-Agent Interaction, within ICAI 07 (International Conference on Artificial Intelligence), 25-28 June 2007.
- Editor of

Yildirim, Sule; Kofod-Petersen, Anders. Proceedings of the second Norwegian Artificial Intelligence Symposium : November 22, 2010 Høgskolen i Gjøvik. Tapir Akademisk Forlag 2010 (ISBN 978-82-519-2704-8) 101 s.

- Editorial Advisory Board of
The book titled Ubiquitous Multimedia and Mobile Agents: Models and Implementations published by IGI Publishing, USA, ISBN13: 9781613501078, August 2011.
- Associated editor of:
Book - ISBN #: 1-60132-023-X (ICAI'07 Volume I) "Proceedings of the 2007 International Conference on Artificial Intelligence
Book - ISBN #: 1-60132-024-8 (ICAI'07 Volume II) "Proceedings of the 2007 International Conference on Artificial Intelligence
Book - ISBN #: 1-60132-025-6 (for the set of two volumes) "Proceedings of the 2007 International Conference on Artificial Intelligence (ICAI'07)"
- Session Chair:
The Fifth International Conference on Case-Based Reasoning (ICCBR 2003), June 23 - 6, Trondheim, Norway.
ICAI 07 (International Conference on Artificial Intelligence), 25-28 June 2007, Las Vegas, US
- Judge:
19th Annual Space Design Competition at STAIF-2007 the Space Technology and Applications International Forum, The University of New Mexico, Albuquerque, 12 Feb.

Scientific Program Committee Member and Reviewer for Journals & Conferences

2018- Police Practice and Research: An International Journal, Reviewer
2018- Journal Measurement, Reviewer
2018- Journal Applied Sciences, Reviewer
2018-Machine Learning Research Editorial Member
2018- IEEE and EURASIP - EUVIP: European Workshop on Visual Information Processing, Reviewer
2018- ICICT: International Conference on Information and Computer Technologies, Member of Technical Committee
2018 ACM- ICDDA: The International Conference on Compute and Data Analysis, Program Committee (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 APR- SCIA: The Scandinavian Conference on Image Analysis, Reviewer
2017 IARIA- SMGSP: SmartMicro-Grid Systems Security and Privacy, PC member
2017- IEEE- SSTM Track in WETICE: International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises, PC member
2017- IARIA eTELEMED: International Conference on eHealth, Telemedicine, and Social Medicine, PC member
2012- EFMI- Phealth: International Conference on Wearable, Micro and Nano Technologies for Personalized Health
Reviewer
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
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
2013-15 IARIA- SEMAPRO: International Conference on Advances in Semantic Processing, Technical Program Committee
2011 International Journal of Computer Science and Applications, Reviewer
2011 Springer book, "Semantic Agent Systems: Foundations and Applications"
2011 Book: Ubiquitous Multimedia and Mobile Agents: Models and Implementations published by IGI Publishing,
USA, ISBN13: 9781613501078, August, Editorial Advisory Board.
2010 Yildirim, Sule; Kofod-Petersen, Anders. Proceedings of the second Norwegian Artificial Intelligence Symposium:
November 22, GUC. Tapir Akademisk Forlag (ISBN 978-82-519-2704-8), Editor, Reviewer
2009-10 SCS- SpringSim: Spring Simulation Multi-Conference, International Program Committee
2009 ICKD: The International Conference on Knowledge Discovery, Reviewer
2008-09 SCS- SummerSim: Summer Simulation Multiconference, International Program Committee
2008 EuroCogSci: The European Cognitive Science Conference, Reviewer

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
2007 ACSE- ICAI: International Conference on Artificial Intelligence, 25-28 June, Las Vegas, USA Session Chair
2007 19th Annual Space Design Competition at STAIF-2007 the Space Technology and Applications International Forum, The University of New Mexico, Albuquerque, 12 Feb., Judge
2005 ECML: European Conference on Machine Learning, Reviewer
2005 IKS: International Conference on Knowledge Systems, Reviewer
2003 ICCBR: The Fifth International Conference on Case-Based Reasoning, June 23-26, Trondheim, Session Chair

Courses Taught

- Image Analysis and Processing Gjøvik Univ. Col. Master Fall'10,'11, '12, '13, '14, '15, '16, '17,'18
- Artificial Intelligence Gjøvik Univ. Col Master & Undergraduate Spring'10-17, Fall'18
- Content-based indexing and Retrieval Gjøvik Univ. Col Master Fall'09-18
- Game Programming Gjøvik Univ. Col Undergraduate Fall'09
- Game design Gjøvik Univ. Col Undergraduate Fall'09, Fall'10-11
- Mathematics 2 Hedmark Univ. Col. Undergraduate Spring'09
- Operating Systems Hedmark Univ. Col. Undergraduate Spring'09
- Data Structures and Alg. Hedmark Univ. Col. Undergraduate
- Mathematics 2 Hedmark Univ. Col. Undergraduate Spring'08
- Data Structures and Alg. Hedmark Univ. Col. Undergraduate Fall'06-08, Spring'06
- Data Communication 2 Hedmark Univ. Col. Undergraduate Fall'05
- Subsymbolic Artificial Intelligence Methods NTNU Graduate Spring'04 and Fall'04
- Data Structures and Algorithms Ege University Undergraduate Fall'01-02
- Discrete Structures for Computer Science Ege University Undergraduate Fall'02
- Distributed Systems (Assisted as a Teaching Assistant) CMU Graduate Fall'00
- Introduction to Computer Sciences Ege University Academic Fall'98

Thesis Supervision

5 postdocs are currently supervised.

PhD thesis. Zenun Kastrati. "Improving Document Classification Using Ontologies". 2018.

PhD thesis. Ahmed Kedir Mohammed. "Capsule Video Endoscopy". PhD thesis. ongoing.

Master thesis: Alexa Mosegui. a novel approach for face morphing attack. Fraunhofer IGD, 2018.

Master thesis: Yat Lam Hong. Studies on Inter Observer Variation in SaliencyMap. Fraunhofer IGD, 2018.

Master thesis: Mao Ruiquan. An optimized architecture for image segmentation algorithm. NTNU, 2017.

Master thesis: Yang Du. Cache-SSD Based Index for Big data. NTNU, 2017.

Master thesis: Thomas Mellemseter. Reasoning under Uncertainty in Darkchess. NTNU, 2017.

Master thesis: [An investigation on the applicability of traditional image quality measures against user preferences on social networks](#) (delivered to GUC, July 2015)

Master Thesis: [Hierarchical Image Segmentation](#) (delivered to GUC, July 2015) Margarita Khokhlova [\[PDF\]](#)

Master Thesis: [Detection and Segmentation for the spinal cord using Machine Learning](#) (delivered to GUC, July 2015)

Limamou Gueye [\[PDF\]](#)

Master Thesis: Training and Evaluation of a Framework for Pixel-Wise Object Class Segmentation using Synthetic Depth Data, V Sharma, Karlsruhe Institute of Technology, University of Oslo, Hospital of Oslo and GUC.

Master Thesis : The Use of Online Social Networks for Criminal Investigations (delivered to GUC, 27 Nov. 2013)

Master Thesis : Real time Facial expression for controlling Sound Effect Parameters (delivered to GUC. July, 2013)

Master Thesis: Multi-Biometrics Authentication using Fingerprint and Iris Recognition in Identity Management (delivered to GUC. July, 2012)

Master Thesis: Adult video content detection using Machine Learning Techniques, (delivered to GUC, July 2012).

Master Thesis: A Development and Implementation of a Connectionist Natural Language Parser, delivered to NTNU).

Master Thesis: The Use of Artificial Intelligence Techniques in a Real-Time Strategy (RTS) Game (delivered to NTNU).

Master Thesis: Relevant Concepts of and a Framework for Conceptual Representations based on Connectionism (Delivered – 01 June 2007 to NTNU)

Master Thesis Cognitive video surveillance: an ANN/CBR hybrid approach (Delivered – 01 June 2007 to NTNU)

Master Thesis: Simulating animal behavior: learning and evolution (Delivered - May 2007 to NTNU)

Undergraduate Thesis: A review of the use of artificial intelligence in healthcare systems and on mobile healthcare devices (delivered to University of Tirana, June 2016)

Undergraduate Thesis : Procedurally Generated Content with OPENCL (delivered to GUC. 2010)

Undergraduate Thesis : AR Stadium Games (delivered to GUC. 2010)

Undergraduate Thesis: Process Portals. (delivered to Hedmark University College).

Various Committees and Boards

2018 External committee member for the evaluation of applications for a PhD fellowship at OsloMet

2018-Member of the Research Ethics board of NTNU

2016-Member of the SMILE Horizon2020 Project management board

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 ECSO 'Support to SMEs, coordination with countries (in particular East EU) and regions' Working Group

2013- COST Expert to participate in the evaluations of COST activities

2013-2017 Steering committee deputy member, GUC and NTNU

2015- Deputy member of CCIS Management Board, GUC and NTNU

2011-Member of the Norwegian Biometrics Lab., 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 Studiesenteret, HIHM

2006-Member of the Norwegian Association for Image Processing and Pattern Recognition (NOBIM)

2005-Member of the Norwegian Association for Researchers (Forskerforbundet)

2006-2009 Head of Computer Science Dept. HIHM

2000- Graduate Student advisor for more than 25 MSc, PhD, Postdoc and visiting researchers, NTNU, GUC, HIHM and EGE

Media

NTNU expert in Artificial Intelligence for journalists¹

News in media - EU Horizon SMILE Project, Oppland Arbeider Blad²

Article in Oppland Arbeiderblad, Expert opinion on 3D biometrics, TU (Tekniske Ukeblad)³

(Invited) Talks & Workshop Organization

- Invited talk at PhD seminar of the univeristy SEEU, Macedonia 2015.
- Ş Yildirim Yayilgan, State of the Art of EHR infrastructures, in Workshop 'B Blobel, F Allaert, D Kalra, P Pharow, P Ruotsalainen, S Sauermann, Ş Yildirim Yayilgan, Reuse and Secondary use of Health Data (sponsored by EFMI)', Phealth2013, 26 June.
- Ş Yildirim Yayilgan, Secure Technologies: Where and Why?, NISLAB Opening 10th Year, 2012, GUC.
- Ş Yildirim Yayilgan, B Blobel, P Ruotsalainen, [What is e-health - its concepts, approaches and products?](#) Velferdsteknologikonferansen 2012 (Velkon2012), 3-4 October, Trondheim.
- B Blobel, F Allaert, D Kalra, P Pharow, P Ruotsalainen, S Sauermann, Ş Yildirim Yayilgan, Workshop Organization: "EHRs, Mobile Technologies and Policies on the Move to Pervasive Care", 27 August, MIE2012.
- Sule Yildirim YAYILGAN and Kamer VISHI, "Identity management in sport event". Sikkerhet, fare for identitetstyveri og misbruk av biometriske data. Utvikling av teknologi og metoder, NID konferansen, Oslo.
- Sule Yildirim YAYILGAN (2011) Françoise PETERSEN, Dag WAALER, Asbjørn HOVSTØ, Peter PHAROW, Tomas TRPIŠOVSKÝ, PAMIT.com Personalized AMbient Intelligent Travel COMpanion: Its Aim, Goals and Challenges, Velferdsteknologi konferansen 2011, 8-9 November, Trondheim
- S. Yildirim Yayilgan (2011), The PAMIT.com approach: aim, goals, and challenges, invited speech, Lyon, France, pHealth2011, July.

¹ <https://www.ntnu.no/forskning/eksperter/kunstig-intelligens>

² <https://www.oe.no/ntnu-i-gjovik/gjovik/kallerud/ntnu-sikrer-seg-millioner-fra-eu/s/5-35-375838>

³ <https://www.oe.no/debatt/ntnu-i-gjovik/energibransjen/kan-du-klare-a-spare-mer-strom-enn-naboen/o/5-35-343681>

- S. Yildirim (2010) SCAM: Safer Children Internet Access, RFID-RNET Workshop, Oslo, 10-11 May.
- S. Yildirim (2010) Robots, Nasjonal sikkerhetsdag, Norsk senter for informasjonssikring (NorSIS) and Høgskolen i Gjøvik (HiG), 22. april, kl 08:00-10:00, i Eidsiva bygget på Kallerud.

Attendances

AEP project workshops (AEPMAK.org) (2011 - 2015)
 EU Horizon meeting, MEDTECH Oslo, October 2015
 IC1206 workshop, Mataro, Spain, November 2013.
 ID conference, Berlin, October 2013.
 Border Technologies Management Summit, Istanbul, 1-4 July 2013.
 Phealth 2013, Session Speaker, Tallinn Estonia.
 Velkon 2012
 NID 2012, Oslo.
 Identity 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.

Publications

Journal

Vivek Sharma and Sule Yildirim Yayilgan. "Real-time Holistic Scene Understanding using Single Depth Images for Safe Human-Robot Collaboration". In: *International Journal of Robotics Research (Accepted)*.

Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "Performance Analysis of Machine Learning Classifiers on Improved Concept Vector Space Model". In: *FGCS-Future Generation Computer Systems-Elsevier (Accepted)*.

Wendelberg Linda, Dalai Giampero, and Volden Frode Yildirim-Yayilgan Sule. "Single-stream animation of eyemovement in death anxiety – Real and simulated data". In: *Computer animation VirtualWorlds (Under Review)*.

Pavel Škrabánek and Sule Yildirim-Yayilgan. "Visualization of classification performance dependency on grayscale conversion setting". In: *MENDEL journal series (SJR 0.2, Scopus)*.

Sule Yildirim and Turhan Tunali. "The Implementation of a Robotic Replanning Framework". In: *Advances in Information Systems (2002)*. Ed. by Tatyana Yakhno, pp. 195–204.

Pavel Škrabánek, Pavel Vodíčka, and Sule Yildirim-Yayilgan. "Control System of a Semi-Autonomous Mobile Robot**The work has been supported by the Funds of University of Pardubice, Czech Republic, grant No. SGS-2016-017." In: *IFAC-PapersOnLine* 49.25 (2016). 14th IFAC Conference on Programmable Devices and Embedded Systems PDES 2016, pp. 460–469. ISSN: 2405-8963. DOI: <https://doi.org/10.1016/j.ifacol.2016.12.065>. URL: <http://www.sciencedirect.com/science/article/pii/S2405896316327021>.

Jun Wang et al. "Reciprocity between the cerebellum and the cerebral cortex: Nonlinear dynamics in microscopic modules for generating voluntary motor commands". In: *Complexity* 14.2 (2008), pp. 29–45. DOI: [10.1002/cplx.20241](https://doi.org/10.1002/cplx.20241). URL: <https://doi.org/10.1002/cplx.20241>.

Ahmed Mohammed et al. "Variational approach for capsule video frame interpolation". In: *EURASIP Journal on Image and Video Processing* 2018.1 (May 2018), p. 30. ISSN: 1687-5281. DOI: [10.1186/s13640-018-0267-9](https://doi.org/10.1186/s13640-018-0267-9). URL: <https://doi.org/10.1186/s13640-018-0267-9>.

Ahmed Mohammed et al. "Stochastic Capsule Endoscopy Image Enhancement". In: *Journal of Imaging* 4.6 (2018). URL: <https://brage.bibsys.no/xmlui/handle/11250/2501446>.

Vivek Sharma et al. "Efficient Real-Time Pixelwise Object Class Labeling for Safe Human-Robot Collaboration in Industrial Domain". In: *JMLR Workshop and Conference Proceedings* 43 (2015), pp. 6–14. URL: <http://jmlr.org/proceedings/papers/v43/sharma15.html>.

Claudia Companioni-Brito et al. "Editorial Image Retrieval Using Handcrafted and CNN Features". In: *Lecture Notes in Computer Science* 10884 (2018). Ed. by Alamin Mansouri et al., pp. 284–291. DOI: [10.1007/978-3-319-94211-7_31](https://doi.org/10.1007/978-3-319-94211-7_31). URL: https://doi.org/10.1007/978-3-319-94211-7_31.

Yat Hong Jacky Lam and Sule Yildirim Yayilgan. "Saliency-Based Image Object Indexing and Retrieval". In: *Lecture Notes in Computer Science* 10882 (2018). Ed. by Aurélio Campilho, Fakhri Karray, and Bart M. ter Haar Romeny, pp. 269–277. DOI: [10.1007/978-3-319-93000-8_31](https://doi.org/10.1007/978-3-319-93000-8_31). URL: https://doi.org/10.1007/978-3-319-93000-8_31.

Evelyn Paiz-Reyes, Nadile Nunes-de-Lima, and Sule Yildirim Yayilgan. "GIF Image Retrieval in Cloud Computing

Environment". In: *Lecture Notes in Computer Science* 10882 (2018). Ed. by Aurélio Campilho, Fakhri Karray, and Bart M. ter Haar Romeny, pp. 261–268. DOI: [10.1007/978-3-319-93000-8_30](https://doi.org/10.1007/978-3-319-93000-8_30). URL: https://doi.org/10.1007/978-3-319-93000-8_30.

Claudia Companioni-Brito et al. "Mobile-Based Painting Photo Retrieval Using Combined Features". In: *Lecture Notes in Computer Science* 10882 (2018). Ed. by Aurélio Campilho, Fakhri Karray, and Bart M. ter Haar Romeny, pp. 278–284. DOI: [10.1007/978-3-319-93000-8_32](https://doi.org/10.1007/978-3-319-93000-8_32). URL: https://doi.org/10.1007/978-3-319-93000-8_32.

Ahmed Mohammed et al. "Sparse Coded Handcrafted and Deep Features for Colon Capsule Video Summarization". In: *Computer-Based Medical Systems* (June 2017), pp. 728–733. ISSN: 2372-9198. DOI: [10.1109/CBMS.2017.13](https://doi.org/10.1109/CBMS.2017.13).

Tomás Majtner, Sule Yildirim Yayilgan, and Jon Yngve Hardeberg. "Efficient Melanoma Detection Using Texture-Based RSurf Features". In: *Lecture Notes in Computer Science* 9730 (2016). Ed. by Aurélio Campilho and Fakhri Karray, pp. 30–37. DOI: [10.1007/978-3-319-41501-7_4](https://doi.org/10.1007/978-3-319-41501-7_4). URL: https://doi.org/10.1007/978-3-319-41501-7_4.

Binu Melit Devassy, Sule Yildirim, and Jon Yngve Hardeberg. "The Impact of Replacing Complex Hand-Crafted Features with Standard Features for Melanoma Classification using Both Hand-Crafted and Deep Features". In: "Advances in Intelligent Systems and Computing".

Marika Apostolova Trpkovska, Sule Yildirim Yayilgan, and Adrian Besimi. "An Integrated Children Disease Prediction Tool within a Special Social Network." In: *Studies in health technology and informatics* 221 (2016), pp. 69–73.

Fisnik Dalipi, Sule Yildirim Yayilgan, and Alemayehu Gebremedhin. "Data-Driven Machine-Learning Model in District Heating System for Heat Load Prediction: A Comparison Study". In: *Applied Comp. Int. Soft Computing* 2016 (2016), 3403150:1–3403150:11. DOI: [10.1155/2016/3403150](https://doi.org/10.1155/2016/3403150). URL: <https://doi.org/10.1155/2016/3403150>.

Ogerta Elezaj, Sule Yildirim, and Edlira Kalem. "Data-Driven Machine Learning Approach for Predicting Missing Values in Large Data Sets: A Comparison Study". In: *Lecture Notes in Computer Science* 10710 (2017). Ed. by Giuseppe Nicosia et al., pp. 268–285. DOI: [10.1007/978-3-319-72926-8_23](https://doi.org/10.1007/978-3-319-72926-8_23). URL: https://doi.org/10.1007/978-3-319-72926-8_23.

Qëndresë Hyseni et al. "Solving the Problem of Distribution of Fiscal Coupons by Using a Steady State Genetic Algorithm". In: *Innovations in Bio-Inspired Computing and Applications* (2018). Ed. by Ajith Abraham et al., pp. 49–59.

Kadri Sylejmani et al. "Distribution of fiscal coupons via Genetic Algorithms and Greedy Randomized Adaptive Search Procedure". In: *International Journal of Computer Information Systems and Industrial Management Applications* 10 (2018), pp. 143–153. ISSN: 2150-7988. URL: <https://doi.org/10.1504/IJMSO.2017.10011827>.

Sule Yildirim Yayilgan et al. "An Architectural Approach to Building Ambient Intelligent Travel Companions". In: *International Journal of E-Health and Medical Communications IJEHMC* 3.3 (2012), pp. 86–95. DOI: [10.4018/jehmc.2012070107](https://doi.org/10.4018/jehmc.2012070107).

Sule Yildirim Yayilgan et al. "ANew Ski Injury Registration System Architecture Using Mobile Applications to Enhance Skiing Safety". In: *IJIM* 10.4 (2016), pp. 4–10. URL: <http://www.online-journals.org/index.php/i-jim/article/view/5540>.

Zenun Kastrati et al. "Analysis of Online Social Networks Posts to Investigate Suspects Using SEMCON". In: *Lecture Notes in Computer Science* 9182 (2015). Ed. by Gabriele Meiselwitz, pp. 148–157. DOI: [10.1007/978-3-319-20367-6_16](https://doi.org/10.1007/978-3-319-20367-6_16). URL: https://doi.org/10.1007/978-3-319-20367-6_16.

Edlira Kalem et al. "SMONT: an ontology for crime solving through social media". In: *IJMSO* 12.2/3 (2017), pp. 71–81. DOI: [10.1504/IJMSO.2017.10011827](https://doi.org/10.1504/IJMSO.2017.10011827). URL: <https://doi.org/10.1504/IJMSO.2017.10011827>.

Wendelberg Linda, Volden Frode, and Yildirim-Yayilgan Sule. "Death anxiety and visual oculomotor processing of arousing stimuli in a free view setting". In: *Scand J Psychol.* 58.2 (2017), pp. 131–141. DOI: [doi: 10.1111/sjop.12354](https://doi.org/10.1111/sjop.12354).

Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "SEMCON: A Semantic and Contextual Objective Metric for Enriching Domain Ontology Concepts". In: *Int. J. Semantic Web Inf. Syst.* 12.2 (2016), pp. 1–24. DOI: [10.4018/IJSWIS.2016040101](https://doi.org/10.4018/IJSWIS.2016040101). URL: <https://doi.org/10.4018/IJSWIS.2016040101>.

Zenun Kastrati and Sule Yildirim Yayilgan. "Improving Document Classification Effectiveness Using Knowledge Exploited by Ontologies". In: *Lecture Notes in Computer Science* 10260 (2017). Ed. by Flavius Frasincar et al., pp. 435–438. DOI: [10.1007/978-3-319-59569-6_52](https://doi.org/10.1007/978-3-319-59569-6_52). URL: https://doi.org/10.1007/978-3-319-59569-6_52.

Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "A Hybrid Concept Learning Approach to Ontology Enrichment". In: *Innovations, Developments, and Applications of Semantic Web and Information Systems* (2018), pp. 85–119.

Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "A General Framework for Text Document

ClassificationUsing SEMCONand ACVSR". In: *LectureNotes in Computer Science* 9172 (2015). Ed. by Sakae Yamamoto, pp. 310–319. DOI: [10.1007/978-3-319-20612-7_30](https://doi.org/10.1007/978-3-319-20612-7_30). URL: https://doi.org/10.1007/978-3-319-20612-7%5C_30.

Aud Tone Vold, Sule Yildirim, and Jan Oddvar Sørnes. "New Takes on Learning in Organizations When Using Role Play Simulation". In: *The Proceedings of the 15th European Conference on Knowledge Management* (2014).

Fisnik Dalipi, Sule Yildirim Yayilgan, and Zenun Kastrati. "Enhancing the Learner's Performance Analysis Using SMEUS Semantic E-learning System and Business Intelligence Technologies". In: *Lecture Notes in Computer Science* 9192 (2015). Ed. by Panayiotis Zaphiris and Andri Ioannou, pp. 208–217. DOI: [10.1007/978-3-319-20609-7_20](https://doi.org/10.1007/978-3-319-20609-7_20). URL: https://doi.org/10.1007/978-3-319-20609-7%5C_20.

Fisnik Dalipi et al. "Towards Understanding theMOOC Trend: Pedagogical Challenges and Business Opportunities". In: *Lecture Notes in Computer Science* 9753 (2016). Ed. by Panayiotis Zaphiris and Andri Ioannou, pp. 281–291. DOI: [10.1007/978-3-319-39483-1_26](https://doi.org/10.1007/978-3-319-39483-1_26). URL: https://doi.org/10.1007/978-3-319-39483-1%5C_26.

FisnikDalipi,Mexhid Ferati, and Sule YildirimYayilgan. "User Interface Evaluation of a Ski InjuriesManagement System". In: *Advances in Human Factors in Sports and Outdoor Recreation. Advances in Intelligent Systems and Computing* 496 (2017).

TomásMajtner et al. "Ensemble of Convolutional Neural Networks for Dermoscopic Images Classification". In: *CoRR* abs/1808.05071 (2018). arXiv: [1808.05071](https://arxiv.org/abs/1808.05071). URL: <http://arxiv.org/abs/1808.05071>.

[123] S. Bolkar et al. "Deep Smoke Removal from Minimally Invasive Surgery Videos". In: *2018 25th IEEE International Conference on Image Processing (ICIP)* (Oct. 2018), pp. 3403–3407. ISSN: 2381-8549. DOI: [10.1109/ICIP.2018.8451815](https://doi.org/10.1109/ICIP.2018.8451815).

Book chapters

Ahmed Kedir Mohammed et al. "StreoScenNet: Surgical Stereo Robotic Scene segmentation". In: *Medical Imaging Conference SPIE. Accepted for Publication*

Sule Yildirim and Turhan Tunalı. "A New Methodology For Dealing With Uncertainty In Robotic Tasks". In: *Proceedings of the Fourteenth International Symposium on Computer and Information Sciences (ISCIS'99)*. 1999.

Sule Yildirim. "A Learning Based Vision Guided Robotic Agent Replanning Framework and a Case Study". In: *Proceedings of the International Conference on Artificial Intelligence, IC-AI '04, Volume 2, Proceedings of the International Conference on Machine Learning; Models, Technologies and Applications, MLMTA '04, June 21-24, 2004, Las Vegas, Nevada, USA*. Ed. by Hamid R. Arabnia and Youngsong Mun. CSREA Press, 2004, pp. 770–776. ISBN: 1-932415-32-7.

Sule Yildirim. "Innate Planning Mechanism". In: *Proceedings of the Workshop on Modeling Natural Action Selection*. Ed. by Bryson J. et al. AISB Press, 2005, pp. 221–224.

Sule Yildirim and Ronald Beachell. "Does the Human Brain Have Algorithms?" In: *Proceedings of the 2006 International Conference on Artificial Intelligence (ICAI'06); Las Vegas*. 2006.

Sule Yildirim, Ronald Beachell, and Henning Veflingstad. "Novel Rock Detection Intelligence for Space Exploration Based on Non-Symbolic Algorithms and Concepts". In: *Proceedings of the Space Technology and applications international forum STAIF.11th Conference on Thermophysiscs Applications inMicrogravity. Albuquerque, NewMexico*. 2007.

Sule Yildirim and Henning Veflingstad. "Novelty Detection in and Between Different Modalities". In: *Proceedings of the Space Technology and applications international forum STAIF*. 2008. URL: <http://link.aip.org/link/?APCPCS/969/818/1>.

Sule Yildirim, Gregory L. Dam, and James C. Houk. "The mind agents in Netlogo 3.1". In: *Proceedings of the 2007 Spring Simulation Multiconference, SpringSim 2007, Norfolk, Virginia, USA, March 25-29, 2007, Volume 2*. 2007, pp. 137–143. URL: <http://dl.acm.org/citation.cfm?id=1404680.1404702>.

Sule Yildirim and Sindre Berg Stene. "A survey on the need and use of AI in game agents". In: *Proceedings of the 2008 Spring Simulation Multiconference, SpringSim 2008, Ottawa, Canada, April 14-17, 2008*. 2008, pp. 124–131. URL: <http://dl.acm.org/citation.cfm?id=1400549.1400565>.

Arild Jacobsen, Sindre Berg Stene, and Sule Yildirim. "Agents of the Mind to Emerge in Netlogo". In: *Proceedings of the First Norwegian Artificial Intelligence Symposium*. 2009.

Sule Yildirim and Sindre Berg Stene. "A survey on the need and use of AI in game agensts". In: *Modeling, simulation, and optimization: focus on applications*. IntechOpen, 2010.

Frank Dittrich et al. "Pixelwise Object Class Segmentation based on Synthetic Data using an Optimized Training Strategy". In: *First International Conference on Networks and Soft Computing (ICNSC2014)*. 2014.

Vivek Sharma, Sule YildirimYayilgan, and Luc Van Gool. "Low-cost scenemodelling using a density function improves segmentation performance". In: *25th IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN 2016, New York, NY, USA, August 26-31, 2016*. IEEE, 2016, pp. 77–84. ISBN: 978-1-5090-3929-6. DOI: [10.1109/ROMAN.2016.7745113](https://doi.org/10.1109/ROMAN.2016.7745113). URL: <https://doi.org/10.1109/ROMAN.2016.7745113>.

2016.7745113.

TomásMajtner et al. "Improving skin lesion segmentation in dermoscopic images by thin artefacts removal methods". In: *6th European Workshop on Visual Information Processing, EUVIP 2016, Marseille, France, October 25-27, 2016*. IEEE, 2016, pp. 1–6. ISBN: 978-1-5090-2781-1. DOI: [10.1109/EUVIP.2016.7764580](https://doi.org/10.1109/EUVIP.2016.7764580). URL: <https://doi.org/10.1109/EUVIP.2016.7764580>.

VictorM. T. Ochoa, Sule Yildirim Yayilgan, and Faouzi Alaya Cheikh. "Adult Video Content Detection Using Machine Learning Techniques". In: *2012 Eighth International Conference on Signal Image Technology and Internet Based Systems*. Nov. 2012, pp. 967–974. DOI: [10.1109/SITIS.2012.143](https://doi.org/10.1109/SITIS.2012.143).

Carlos A. Duque, Ani Khachatryan, and Sule Yildirim-Yayilgan. "A relevance feedback based image retrieval approach for improved performance". In: *2015 Colour and Visual Computing Symposium(CVCS)*. Aug. 2015, pp. 1–6. DOI: [10.1109/CVCS.2015.7274883](https://doi.org/10.1109/CVCS.2015.7274883).

Limamou Gueye et al. "Automatic detection of colonoscopic anomalies using capsule endoscopy". In: *2015 IEEE International Conference on Image Processing, ICIP 2015, Quebec City, QC, Canada, September 27-30, 2015*. IEEE, 2015, pp. 1061–1064. ISBN: 978-1-4799-8339-1. DOI: [10.1109/ICIP.2015.7350962](https://doi.org/10.1109/ICIP.2015.7350962). URL: <https://doi.org/10.1109/ICIP.2015.7350962>.

Ahmed Kedir Mohammed et al. "Y-Net: A deep Convolutional Neural Network for Polyp Detection". In: *Proceedings of the British Machine Vision Conference, BMVC2018, London, 2018 - in print*. URL: <http://bmvc2018.org/callforpapers.html>.

Tomás Majtner, Sule Yildirim Yayilgan, and Jon Yngve Hardeberg. "Combining deep learning and handcrafted features for skin lesion classification". In: *Sixth International Conference on Image Processing Theory, Tools and Applications, IPTA 2016, Oulu, Finland, December 12-15, 2016*. IEEE, 2016, pp. 1–6. ISBN: 978-1-4673-8910-5. DOI: [10.1109/IPTA.2016.7821017](https://doi.org/10.1109/IPTA.2016.7821017). URL: <https://doi.org/10.1109/IPTA.2016.7821017>.

Fisnik Dalipi et al. "An intelligent model for predicting the occurrence of skiing injuries". In: *2015 5th National Symposium on Information Technology: Towards New Smart World (NSITNSW)*. Feb. 2015, pp. 1–7. DOI: [10.1109/NSITNSW.2015.7176420](https://doi.org/10.1109/NSITNSW.2015.7176420).

Fisnik Dalipi and Sule Yildirim Yayilgan. "The impact of environmental factors to skiing injuries: Bayesian regularization neural network model for predicting skiing injuries". In: *2015 6th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*. July 2015, pp. 1–6. DOI: [10.1109/ICCCNT.2015.7395218](https://doi.org/10.1109/ICCCNT.2015.7395218).

Fisnik Dalipi, Sule Yildirim Yayilgan, and Alemayehu Gebremedhin. "A Cloud Computing Framework for Smarter District Heating Systems". In: *2015 IEEE 12th Intl Conf on Ubiquitous Intelligence and Computing and 2015 IEEE 12th Intl Conf on Autonomic and Trusted Computing and 2015 IEEE 15th Intl Conf on Scalable Computing and Communications and Its Associated Workshops (UIC-ATC-ScalCom), Beijing, China, August 10-14, 2015*. IEEE Computer Society, 2015, pp. 1413–1416. ISBN: 978-1-4673-7211-4. DOI: [10.1109/UICATC-ScalCom-CBDCom-IoP.2015.255](https://doi.org/10.1109/UICATC-ScalCom-CBDCom-IoP.2015.255). URL: <https://doi.org/10.1109/UIC-ATC-ScalCom-CBDCom-IoP.2015.255>.

Fisnik Dalipi, Sule Yildirim Yayilgan, and Alemayehu Gebremedhin. "A machine learning approach to increase energy efficiency in district heating systems". In: *Environmental Engineering and Computer Application : Proceedings of the International Conference on Environmental Engineering and Computer Application, ICEECA 2014*. 2015, pp. 223–226. ISBN: 978-1-138-02807-4. DOI: [10.1201/b18565-44](https://doi.org/10.1201/b18565-44).

Sule Yildirim Yayilgan et al. "A novel system architecture for efficient management of skiing injuries". In: *2015 International Conference on Interactive Mobile Communication Technologies and Learning (IMCTL)*. Nov. 2015, pp. 73–77. DOI: [10.1109/IMCTL.2015.7359558](https://doi.org/10.1109/IMCTL.2015.7359558).

Sule Yildirim Yayilgan et al. "Group Identification at Border Crossing Points". In: *BIOSIG 2011 - Proceedings of the Special Interest Group on Biometrics and Electronic Signatures, 08.-09. September 2011 in Darmstadt, Germany*. Ed. by Arslan Brömme and Christoph Busch. Vol. 191. LNI. GI, 2011, pp. 291–296. ISBN: 978-3-88579-285-7. URL: <http://subs.emis.de/LNI/Proceedings/Proceedings191/article6473.html>.

Kamer Vishi and Sule Yildirim Yayilgan. "Multimodal Biometric Authentication Using Fingerprint and Iris Recognition in Identity Management". In: *2013 Ninth International Conference on Intelligent Information Hiding and Multimedia Signal Processing*. Oct. 2013, pp. 334–341. DOI: [10.1109/IIH-MSP.2013.91](https://doi.org/10.1109/IIH-MSP.2013.91).

Adnan Abdalla and Sule Yildirim Yayilgan. "A Review of Using Online Social Networks for Investigative Activities". In: *Social Computing and Social Media*. Ed. by Gabriele Meiselwitz. Cham: Springer International Publishing, 2014, pp. 3–12. ISBN: 978-3-319-07632-4.

Fisnik Dalipi and Sule Yildirim Yayilgan. "Security and Privacy Considerations for IoT Application on Smart Grids: Survey and Research Challenges". In: *4th IEEE International Conference on Future Internet of Things and Cloud Workshops, FiCloud Workshops 2016, Vienna, Austria, August 22-24, 2016*. Ed. by Muhammad Younas, Irfan Awan, and Joyce El Haddad. IEEE Computer Society, 2016, pp. 63–68. ISBN: 978-1-5090-3946-3. DOI: [10.1109/W-FiCloud.2016.28](https://doi.org/10.1109/W-FiCloud.2016.28). URL: <https://doi.org/10.1109/W-FiCloud.2016.28>.

Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "SEMCON: Semantic and contextual objective metric". In: *Proceedings of the 9th IEEE International Conference on Semantic Computing, ICSC 2015*,

- Anaheim, CA, USA, February 7-9, 2015. Ed. by Mohan S. Kankanhalli, Tao Li, and Wei Wang. IEEE Computer Society, 2015, pp. 65–68. ISBN: 978-1-4799-7935-6. DOI: [10.1109/ICOSC.2015.7050779](https://doi.org/10.1109/ICOSC.2015.7050779). URL: <https://doi.org/10.1109/ICOSC.2015.7050779>.
- Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "An Improved Concept Vector Space Model for Ontology Based Classification". In: *11th International Conference on Signal-Image Technology & Internet-Based Systems, SITIS 2015, Bangkok, Thailand, November 23-27, 2015*. Ed. by Kokou Yétongnon and Albert Dipanda. IEEE Computer Society, 2015, pp. 240–245. ISBN: 978-1-4673-9721-6. DOI: [10.1109/SITIS.2015.102](https://doi.org/10.1109/SITIS.2015.102). URL: <https://doi.org/10.1109/SITIS.2015.102>.
- Zenun Kastrati, Sule Yildirim Yayilgan, and Rune Hjelsvold. "Automatically Enriching Domain Ontologies for Document Classification". In: *Proceedings of the 6th International Conference on Web Intelligence, Mining and Semantics, WIMS 2016, Nimes, France, June 13-15, 2016*. Ed. by Rajendra Akerkar et al. ACM, 2016, 29:1–29:4. ISBN: 978-1-4503-4056-4. DOI: [10.1145/2912845.2912875](http://doi.acm.org/10.1145/2912845.2912875). URL: <http://doi.acm.org/10.1145/2912845.2912875>.
- Zenun Kastrati and Sule Yildirim Yayilgan. "Supervised Ontology-Based Document Classification Model". In: *Proceedings of the International Conference on Compute and Data Analysis, ICCDA 2017, Lakeland, FL, USA, May 19-23, 2017*. ACM, 2017, pp. 245–251. ISBN: 978-1-4503-5241-3. DOI: [10.1145/3093241.3107883](http://doi.acm.org/10.1145/3093241.3107883). URL: <http://doi.acm.org/10.1145/3093241.3107883>.
- Tone Vold et al. "Enhanced learning outcome using participative role play simulation". In: *2010 9th International Conference on Information Technology Based Higher Education and Training (ITHET)*. Apr. 2010, pp. 75–78. DOI: [10.1109/ITHET.2010.5480061](https://doi.org/10.1109/ITHET.2010.5480061).
- Tone Vold and Sule Yildirim Yayilgan. "Playful participation for learning in higher education — The introduction of participatory role play simulation in a course at Hedmark University College". In: *2013 12th International Conference on Information Technology Based Higher Education and Training (ITHET)*. Oct. 2013, pp. 1–4. DOI: [10.1109/ITHET.2013.6671063](https://doi.org/10.1109/ITHET.2013.6671063).
- Ali Shariq Imran et al. "Semantic Tags for Lecture Videos". In: *2012 IEEE Sixth International Conference on Semantic Computing*. Sept. 2012, pp. 117–120. DOI: [10.1109/ICSC.2012.36](https://doi.org/10.1109/ICSC.2012.36).
- Ali Shariq Imran et al. "Semantic Keyword Selection for Automatic Video Annotation". In: *2013 International Conference on Signal-Image Technology Internet-Based Systems*. Dec. 2013, pp. 241–246. DOI: [10.1109/SITIS.2013.49](https://doi.org/10.1109/SITIS.2013.49).
- Ali Shariq Imran et al. "Objective keyword selection for lecture video annotation". In: *2014 5th European Workshop on Visual Information Processing (EUVIP)*. Dec. 2014, pp. 1–6. DOI: [10.1109/EUVIP.2014.7018378](https://doi.org/10.1109/EUVIP.2014.7018378).
- Sule Yildirim Yayilgan et al. "Knowledge, Technology and Innovation (KTI): Opportunities, issues and challenges of KTI transfer between Norway and the Balkans countries". In: *2015 International Conference on Information Technology Based Higher Education and Training, ITHET 2015, Lisbon, Portugal, June 11-13, 2015*. 2015, pp. 1–7. DOI: [10.1109/ITHET.2015.7218022](https://doi.org/10.1109/ITHET.2015.7218022). URL: <https://doi.org/10.1109/ITHET.2015.7218022>.
- Edlira Kalemi et al. "An EHR system architecture for Albania for improving health care services and its implementation". In: *7th International Conference "Information Systems and Technology Innovations"*. 2016.
- Romina Muka, Sule Yildirim, and Kozeta Sevrani. "Legal and ethical considerations for transmission and storage of shared e-health data: A review". In: *Proceedings of the 7th International Conference on Information Systems and Technology Innovations: the New Paradigm for a Smarter Economy*. 2016.
- Ahmed Kedir Mohammed et al. "Deep-STRESS Capsule Video Endoscopy Image Enhancement". In: *The proceedings of CIC26*. 2018.

Conference, Extended Abstract and Poster references

- Sule Yildirim. "A Vision Guided Intelligent Task Planner for a Robot Arm". In: *PhD Thesis*. 2002.
- Sule Yildirim and Turhan Tunali. "A Proposal For A Robotic Planning/Replanning Framework". In: *Proceedings of the Eleventh Turkish Symposium on Artificial Intelligence and Neural Networks*. 2002.
- Sule Yildirim and Turhan Tunali. "A Learning Based and Vision Guided Robotic Agent Replanning Framework". In: *Proceedings of the Twelfth Turkish Symposium on Artificial Intelligence and Neural Networks At: Canakkale, Turkey*. 2003.
- Poster & Extended Abstract** Gregory Dam, Sule Yildirim, and Jim Houk. "A computational model of a cortical cerebellar module". In: *Proceedings of the Sixth Understanding Complex Systems Symposium*. University of Illinois at Urbana-Champaign, Usa, 2006.
- Poster & Extended Abstract** Gregory Dam, Sule Yildirim, and Jim Houk. "Improved Control of a Distributed Processing Module Using a Physiologically Inspired Activation Function". In: *Second Annual Computational Cognitive Neuroscience Conference*. 2006.
- Sule Yildirim, Gregory Dam, and Jim Houk. "A Computational Model Of A Microzone of the Cerebellum". In: *Proceedings of the Sixth Understanding Complex Systems Symposium*. University of Illinois at Urbana-Champaign, 2006.

- Sule Yildirim. "From Low level to High level Reasoning". In: *Proceedings of the Thirteenth Turkish Symposium on Artificial Intelligence and Neural Networks*. Dokuz Eylul University and Bogazici University, 2004.
- Poster&Extended Abstract** Sule Yildirim and Ronald Beachell. "Non-Symbolic Algorithms and Concepts in the Human Brain". In: *Proceedings of the Second Annual Computational Cognitive Neuroscience Conference; Houston, Texas*. 2006.
- Sule Yildirim, Gregory Dam, and Jim Houk. "Agents of the Mind to Emerge in Netlogo". In: *Tenth Annual Swarm Agent-Based Simulation Meeting (SwarmFest 2006)*. University of Notre Dame, Indiana, USA, 2006.
- Poster&Extended Abstract** Vivek Sharma et al. "How to Tune a Random Forest for Real-time Segmentation in Safe Human-Robot Collaboration?" In: *HCI International 2015 - Posters' Extended Abstracts - International Conference, HCI International 2015, Los Angeles, CA, USA, August 2-7, 2015. Proceedings, Part I*. Ed. by Constantine Stephanidis. Vol. 528. Communications in Computer and Information Science. Springer, 2015, pp. 700–704. ISBN: 978-3-319-21379-8. DOI: [10.1007/978-3-319-21380-4_118](https://doi.org/10.1007/978-3-319-21380-4_118). URL: https://doi.org/10.1007/978-3-319-21380-4_118.
- Cristian Rocha et al. "Deep Learning and Radiomics". In: *Northern Lights Deep Learning Workshop*. Jan. 2018.
- Turhan Tunali, Sule Yildirim, and Tayfun Dalbasti. "The Use of Smart Cards in Health Care". In: *Proceedings of the IST-2000-26429 Hermes Project Workshop, Co-sponsored by TUBITAK and METU, Ankara, Turkey*. 2002.
- Demissie B. Aredo and Sule Yildirim. "Security issues in adaptive distributed systems". In: *Proceedings of the Fourteenth European Conference on Information Systems, ECIS 2006, Göteborg, Sweden, 2006*. Ed. by Jan Ljungberg and Magnus Andersson. 2006, pp. 2206–2215. URL: <http://aisel.aisnet.org/ecis2006/63>.
- Edlira Kalemi and Sule Yildirim-Yayilgan. "Ontologies for SocialMediaDigital Evidence". In: *World Academy of Science, Engineering and Technology International Journal of Computer, Electrical, Automation, Control and Information Engineering*. Vol. 10. 2. 2016.
- Poster & Extended Abstract** Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan. "Building Domain Ontologies for Hyperlinked Multimedia Pedagogical Platforms". In: *HCI International 2014 - Posters' Extended Abstracts - International Conference, HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014. Proceedings, Part II*. Ed. by Constantine Stephanidis. Vol. 435. Communications in Computer and Information Science. Springer, 2014, pp. 95–100. ISBN: 978-3-319-07853-3. DOI: [10.1007/978-3-319-07854-0_17](https://doi.org/10.1007/978-3-319-07854-0_17). URL: https://doi.org/10.1007/978-3-319-07854-0_17.
- Peter de Souza and Sule Yildirim. "Artificial Intelligence and "learning regions" - an outline to research adventure". In: *RSA Conference*. May 2007, pp. 75–78.
- Sule Yildirim. "Serious Game Design for Military Training". In: *Games: Design and Research Conference, Volda University College*. June 2010.
- Poster & Extended Abstract** Jonas C. Jeppesen and Sule Yildirim. "Systematic Ski Injury Registration using a Digital Platform". In: *EHealth - For Continuity of Care: Proceedings of MIE2014*. 2014, p. 1251.
- Poster & Extended Abstract** Yang Du and Sule Yildirim Yayilgan. "A Novel Cache and SSD-based Index Structure for Health Record Indexing". In: *Digital Healthcare Empowering Europeans - Proceedings of MIE2015, Madrid Spain, 27-29 May, 2015*. Ed. by Ronald Cornet et al. Vol. 210. Studies in Health Technology and Informatics. IOS Press, 2015, pp. 993–994. ISBN: 978-1-61499-511-1. DOI: [10.3233/978-1-61499-512-8-993](https://doi.org/10.3233/978-1-61499-512-8-993). URL: <https://doi.org/10.3233/978-1-61499-512-8-993>.
- Poster & Extended Abstract** Vivek Sharma et al. "How Does Energy Minimization Improve Recognizing Human Poses for Safe Human-Robot Collaboration?" In: *10th International Conference, EMMCVPR 2015*. 2015.

Reports

- Sule Yildirim et al. *Energizing: A simplification of 3D modeling (BIM) at gaming digital energy efficient operation, maintenance and rehabilitation of water-based heating*. 2017.
- Sule Yildirim-Yayilgan et al. *SPEED: Sport Event Identity Management*. 2012.
- Sule Yildirim. *Kan du klare å spare mer strøm enn naboen?* 2016.