



Zeynep Yücel

Personal information

Address 3-1-1 Tsushima-naka Kita-ku
Okayama-shi 700-8530 Japan
Telephone +81 86 251 8176
Email zeynep@okayama-u.ac.jp
Nationality Turkish, Italian
Holder of Japanese permanent residence
Date of birth 1981-04-19
WoS ResearcherID V-9340-2019

Education and training

Sep. 2005-Jan. 2010 PhD in Electrical and Electronics Engineering
Major Signal Processing and Computer Vision
Bilkent University, Ankara, Turkey
Sep. 2003- Aug. 2005 MS in Electrical and Electronics Engineering
Major Signal Processing
Bilkent University, Ankara, Turkey
Sep. 1999-June 2003 BS in Electrical and Electronics Engineering
Major Control Systems
Boğaziçi University, Istanbul, Turkey

Awards and honors

Mar 2024 Social Contribution award from Okayama University Faculty of Engineering
Mar 2023 Research Achievement award from Okayama University Faculty of Engineering
Jul 2022 Outstanding Paper Award at International Conference on Learning Technologies and Learning Environments (LTLE 2022)
Jul 2022 Honorable Mention Award at International Conference on Smart Computing and Artificial Intelligence (SCAI 2022)
Mar 2022 Social Contribution award from Okayama University Faculty of Engineering

- Apr 2017 Seal of excellence from European Commission for project proposal 740510, MERLINS with the call Marie Skłodowska-Curie actions call H2020-MSCA-IF-2016.
- Apr 2016 - Mar 2019 Research fellowship from Japan Society for the Promotion of Science (Host institute: ATR International, Japan)
- Jan 2009 - Apr 2009 Research scholarship from National Scientific Council of Turkey (Host institute: Centrum Wiskunde & Informatica, The Netherlands)
- Feb 2008 - May 2008 Research scholarship from National Scientific Council of Turkey (Host institute: University of Amsterdam, The Netherlands)
- Sep 2008 - Dec 2008. Research scholarship from National Scientific Council of Turkey (Host institute: University of Amsterdam, The Netherlands)
- Aug 2005 - Dec 2009 Graduate research scholarship from National Scientific Council of Turkey (within the Information Technology Society (BTT) project)
- Sep 2003 - Dec 2009 Academic accomplishment stipend from Bilkent University
- Sep 2003 - Dec 2009 Tuition waiver scholarship from Bilkent University
- Sep 1999 - Aug 2000 Achievement grant from Boğaziçi University
- June 1999 Ranked 7th countrywide in National University Entrance Examination among ca. 1.5 million examinees
- June 1999 Ranked 1st in graduation from high school
- Sep 1996 - June 1999 Ranked 1st among the class in each of 6 semesters based on GPA in high school.
- June 1996 Ranked 8th countrywide in National High School Entrance Examination among ca. 600.000 examinees

Work experience

The below work experience involves also leave-of-absence denoted in italics.

- Oct 2020 - present Associate Professor
Okayama University
Faculty of Engineering, Department of Computer Science
Okayama, Japan
- Oct 2017 - present Cooperative Researcher
Advanced Telecommunications Research (ATR) Institute International
Deep Interaction Laboratory Group, Interaction Science Labs
Kyoto, Japan
- Apr 2020 - Sep 2020 Assistant Professor (tenured)
Okayama University
Faculty of Engineering, Department of Computer Science
Okayama, Japan
- Apr 2017 - Mar 2020 Woman Tenure Track Assistant Professor
Okayama University
Faculty of Engineering, Department of Computer Science
Okayama, Japan
- Sep 2016 - Mar 2017 Leave-of-absence (Maternity leave for the birth of second child)*
- Apr 2016 - Aug 2016 JSPS RPD Fellow
Advanced Telecommunications Research Institute (ATR) International
Intelligent Robotics and Communication Laboratories
Kyoto, Japan

Oct 2015 - Mar 2016 *Leave-of-absence (Due to relocation to UK for spouse's job post)*

Nov 2014 - Sep 2015 Post doctoral research scientist
Advanced Telecommunications Research Institute (ATR) International
Intelligent Robotics and Communication Laboratories
Kyoto, Japan

Feb 2014 - Oct 2014 *Leave-of-absence (Maternity leave for the birth of first child)*

Jan 2010 - Jan 2014 Post doctoral research scientist
Advanced Telecommunications Research Institute (ATR) International
Intelligent Robotics and Communication Laboratories
Kyoto, Japan

Jan 2009 - Apr 2009 Visiting researcher
Centrum Wiskunde & Informatica
PNA4 Research group
Amsterdam, The Netherlands

Sep 2008 - Dec 2008 Visiting researcher
University of Amsterdam
Intelligent Systems Laboratory (ISLA)
Amsterdam, The Netherlands

Feb 2008 - May 2008 Visiting researcher
University of Amsterdam
Intelligent Systems Laboratory (ISLA)
Amsterdam, The Netherlands

Sep 2003 - Dec 2009 Graduate research and teaching assistant
Bilkent University
Department Electrical and Electronics Engineering
Ankara, Turkey

Grants

- 1 Kakenhi Grant-in-Aid for Scientific Research-C (Project code 23K11169)
Granted by Japan Society for the Promotion of Science, April 2023-Mar 2026
Budget: 2.7M Japanese Yen
- 2 Okayama University Overseas Dispatch Grant for Female Faculties
Granted by Okayama University, Apr 2020 - Mar 2021
Budget: 1.6M Japanese Yen
- 3 Kakenhi Grant-in-Aid for Scientific Research-A (Project code 18H04121)
Granted by Japan Society for the Promotion of Science, Apr 2020-Mar 2021
Budget: 2M Japanese Yen
- 4 WTT teacher support (Project code 2C71907043)
Granted by Okayama University, Apr 2019-Mar 2020
Budget: 150K Japanese Yen

- 5 Kakenhi Grant-in-Aid for Early-Career Scientists (Project code 18K18168)
Granted by Japan Society for the Promotion of Science, Apr 2018 - Mar 2021
Budget: 3.38M Japanese Yen
- 6 Life event support grant (Project code 2C71907043)
Granted by Okayama University, May 2017- Mar 2018
Budget: 300K Japanese Yen
- 7 SAKU Travel fund
Granted by Okayama University, May 2017-
Covers travel costs over 10 days for visiting 3 universities and giving research presentation
- 8 WTT Start-Up fund
Granted by Okayama University, April 2017-Mar 2019
Budget: 2M Japanese Yen
- 9 JSPS RPD Fellowship (Grant number 16J40223)
Granted by Japan Society for the Promotion of Science, Apr 2016-Mar 2019
13M Japanese yen
This fellowship is granted to only 2 researchers nationwide among all the applicants in the area of engineering sciences.
- 10 Kakenhi Grant-in-Aid for Scientific Research (Project code 8KAK1610)
Granted by Japan Society for the Promotion of Science, Apr 2016-Mar 2019
3.25M Japanese Yen

Publication record

Journal Articles

The articles below are given in reverse chronological order and are all peer-reviewed. The impact factors are collected from Web of Science and are for the corresponding year of publication.

- 1 Adrien Gregorj, Zeynep Yücel, Francesco Zanlungo, Claudio Feliciani, Takayuki Kanda
Social aspects of collision avoidance: A detailed analysis of groups and individual pedestrians
Scientific Reports, Sci Rep 13, 5756, 2023.
<https://doi.org/10.1038/s41598-023-32883-z>.
2021 Impact factor 4.996 (2023 Impact not yet available)
- 2 Parisa Supitayakul, Zeynep Yücel, Akito Monden
Artificial Neural Network based audio reinforcement for computer assisted rote learning
IEEE Access, vol. 11, pp. 39466-394, 2023

- <https://doi.org/10.1109/ACCESS.2023.3266731>
2022 Impact factor 3.9 (2023 Impact not yet available)
- 3 Francesco Zanlungo, Claudio Feliciani, Zeynep Yücel, Xialou Jia, Katsuhiko Nishinari, Takayuki Kanda
A pure number to assess congestion in pedestrian crowds
Transportation Research Part C, Vol 148, 104041, 2023.
<https://doi.org/10.1016/j.trc.2023.104041>
2022 Impact factor 8.3 (Q1 Journal, 2023 Impact not yet available)
 - 4 Maohua Gan, Zeynep Yücel, Akito Monden
Neg/pos-normalized accuracy measures for software defect prediction
IEEE Access, Dec 2022 (*early access publication date*).
<https://doi.org/10.1109/ACCESS.2022.3232144>
2022 impact factor 3.9
 - 5 Francesco Zanlungo, Claudio Feliciani, Zeynep Yücel, Katsuhiko Nishinari, Takayuki Kanda
Macroscopic and microscopic dynamics of a pedestrian cross-flow: Part II, modelling
Safety Science, Vol 158, 2023-105969, Oct 2022
<https://doi.org/10.1016/j.ssci.2022.105969>
2022 Impact factor 6.1 (Q1 Journal)
 - 6 Francesco Zanlungo, Claudio Feliciani, Zeynep Yücel, Katsuhiko Nishinari, Takayuki Kanda
Macroscopic and microscopic dynamics of a pedestrian cross-flow: Part I, experimental analysis
Safety Science, Vol 158, 2023-105953, Oct 2022
<https://doi.org/10.1016/j.ssci.2022.105953>
2022 Impact factor 6.1 (Q1 Journal)
 - 7 Maohua Gan, Zeynep Yücel, Akito Monden
Improvement and Evaluation of Data Consistency Metric CIL for Software Engineering Datasets
IEEE Access, vol. 10, pp. 70053-70067, 2022
<https://doi.org/10.1109/ACCESS.2022.3188246>
2022 impact factor 3.9
 - 8 Florian Pellegrin, Zeynep Yücel, Akito Monden, Pattara Leelaprute
Task estimation for software company employees based on computer interaction logs
Empirical Software Engineering, Vol. 26, No. 98, pp 1-48, July 2021.
<https://doi.org/10.1007/s10664-021-10006-4>
2021 impact factor 3.762 (Q1 journal)
 - 9 Zeynep Yücel, Serina Koyama, Akito Monden, Mariko Sasakura

- Estimating level of engagement from ocular landmarks
International Journal of Human-Computer Interaction, Vol. 36, No. 16, pp. 1527-1539, Oct 2020.
<https://doi.org/10.1080/10447318.2020.1768666>
2020 Impact factor 3.353
- 10 Maohua Gan, Zeynep Yücel, Akito Monden, Kentaro Sasaki
Empirical Evaluation of Mimic Software Project Data Sets for Software Effort Estimation
IEICE Transactions on Information and Systems, Vol. E103-D, No. 10, pp. 2094-2103, Oct 2020.
<https://doi.org/10.1587/transinf.2019EDP7150>
2020 Impact factor 0.559
 - 11 Zeynep Yücel, Parisa Supitayakul, Akito Monden, Pattara Leelaprute
An algorithm for automatic collation of vocabulary decks based on word frequency
IEICE Transactions on Information and Systems, Vol. E103-D, No. 08, pp. 1865-1874, Aug 2020.
<https://doi.org/10.1587/transinf.2019EDP7279>
2020 Impact factor 0.559
 - 12 Parisa Supitayakul, Zeynep Yücel, Akito Monden, Pattara Leelaprute
Identification of behavioral variables for efficient representation of difficulty in vocabulary learning systems
International Journal of Learning Technologies and Learning Environments, Vol. 3, No. 1, pp 51-60, June 2020.
<https://doi.org/10.52731/ijltle.v3.i1.521>
Impact factor not available.
 - 13 Francesco Zanlungo, Zeynep Yücel, Takayuki Kanda
Intrinsic group behaviour II: On the dependence of triad spatial dynamics on social and personal features; and on the effect of social interaction on small group dynamics
PLoS ONE 14(12): e0225704, Dec 2019
<https://doi.org/10.1371/journal.pone.0225704>
2019 Impact factor 2.740
 - 14 Zeynep Yücel, Francesco Zanlungo, Claudio Feliciani, Adrien Gregorj, Takayuki Kanda
Identification of social relation within pedestrian dyads
PLoS ONE 14(10): e0223656, Oct 2019.
<https://doi.org/10.1371/journal.pone.0223656>
2019 Impact factor 2.740
 - 15 Consortium for the Physics and Psychology of Human Crowd Dynamics (including Zeynep Yücel and 38 others)

- A glossary for research on human crowd dynamics
Collective Dynamics, Vol. 4, pp. 1-13, Mar 2019.
<https://doi.org/10.17815/CD.2019.19>
Impact factor not available.
- 16 Takashi Watanabe, Akito Monden, Zeynep Yücel, Yasutaka Kamei, Shuji Morisaki
Cross-validation-based association rule prioritization metric for software defect characterization
IEICE Transactions on Information and Systems, Vol. E101-D, No. 9, pp. 2269-2278, Sep 2018
<https://doi.org/10.1587/transinf.2018EDP7020>
2018 Impact factor 0.576
 - 17 Zeynep Yücel, Francesco Zanlungo, Masahiro Shiomi
Modeling the impact of interaction on pedestrian group motion*
Advanced Robotics, Vol. 32, No. 3, pp. 137-147, Jan 2018
<https://doi.org/10.1080/01691864.2017.1421481>
2018 Impact factor 1.104
** This paper is selected as the 'Cutting Edge of Robotics in Japan' by the Editorial Committee of Advanced Robotics.*
 - 18 Francesco Zanlungo, Zeynep Yücel, Drazen Brscic, Takayuki Kanda, Norihiro Hagita
Intrinsic group behaviour: dependence of pedestrian dyad dynamics on principal social and personal features
PLoS ONE 12(11): e0187253, Nov 2017
<https://doi.org/10.1371/journal.pone.0187253>
2017 Impact factor 2.766 (Q1 journal)
 - 19 Masato Sakata, Zeynep Yücel, Kazuhiko Shinozawa, Norihiro Hagita, Michita Imai, Michiko Furutani, Rumiko Matsuoka
An Inference Engine for Estimating Outside States of Clinical Test Items
ACM Transactions on Management Information Systems, Vol.4, No. 3, pp.13 (21 pages), Aug 2013.
<https://doi.org/10.1145/2517084>
(Acceptance rate 22%, impact factor not available in 2013.)
 - 20 Zeynep Yücel, Albert Ali Salah, Çetin Meriçli, Tekin Meriçli, Roberto Valenti, Theo Gevers
Joint Attention by Gaze Interpolation and Saliency
IEEE Transactions on Cybernetics, Vol. 43, No. 3, pp.829-842, June 2013.
<https://doi.org/10.1109/TSMCB.2012.2216979>
2013 Impact factor 3.236
 - 21 Zeynep Yücel, Francesco Zanlungo, Tetsushu Ikeda, Takahiro Miyashita, Norihiro Hagita

Deciphering the Crowd: Modeling and Identification of Pedestrian Group Motion
Sensors, Vol. 13, No. 1, pp. 875-897, Jan 2013.

<https://doi.org/10.3390/s130100875>

2013 Impact factor 2.048

22 Zeynep Yücel, Arif Bülent Özgüler

Watermarking via Zero Assigned Filter Banks

Signal Processing, Volume 90, Issue 2, pp.467-479, Feb 2010.

<https://doi.org/10.1016/j.sigpro.2009.07.012>

2010 Impact factor 1.373

23 Zeynep Yücel, Pınar Duygulu, Yıldırım Sara, Rüştü Onur, Emre Esen, Arif Bülent Özgüler

Automated Discrimination of Psychotropic Drugs in Mice via Computer Vision Based Analysis

Journal of Neuroscience Methods, Volume 180, Issue 2, pp. 234-242, June 2009.

<https://doi.org/10.1016/j.jneumeth.2009.03.014>

2009 Impact factor 2.295

Journal Articles in
non-English
languages

The articles below are given in reverse chronological order, are all written in Japanese and peer-reviewed.

24 田中 和也, 門田 暁人, Zeynep Yücel

ソフトウェア開発工数予測における auto-sklearn の適用

コンピュータソフトウェア, vol.38, no.4, pp.4_46-4_52, Nov 2021

https://doi.org/10.11309/jssst.38.4_46

Impact factor not available.

25 伊永 健人, 門田 暁人, Zeynep Yücel

ソフトウェア開発工数予測におけるデータスムージングの定量的評価

コンピュータソフトウェア, vol.38, no.3, pp.3_83-3_89, Aug 2021

https://doi.org/10.11309/jssst.38.3_83

Impact factor not available

26 田中 和也, 門田 暁人, Zeynep Yücel

ソフトウェアバグ予測における auto-sklearn の有効性評価

コンピュータソフトウェア, Vol. 36, No. 4, pp. 46-52, Nov 2019.

https://doi.org/10.11309/jssst.36.4_46

Impact factor not available.

27 齊藤 英和, 門田 暁人, Zeynep Yücel, 森崎 修司

‘相関関数を扱うアソシエーションルールの提案とソフトウェア開発データへの適用
コンピュータソフトウェア, Vol. 36, No. 3, pp. 47-53, Aug 2019.
https://doi.org/10.11309/jssst.36.3_47
Impact factor not available.

- 28 福谷 圭吾, 門田 暁人, ユジャイ ゼイネップ, 畑 秀明
移動窓によるソフトウェアバグの行レベル予測の試み
コンピュータソフトウェア, Vol. 35, No. 4, pp. 122-128, Nov 2018.
<https://doi.org/10.11309/jssst.35.122>
Impact factor not available.

International
conference articles

The articles below are given in reverse chronological order, are all written in English and peer-reviewed.

- 29 Timothée Languille, Zeynep Yücel
Title not disclosed for double-blind review
IEEE Conf. Computer Vision and Pattern Recognition (CVPR, *Under review*)
- 30 Parisa Supitayakul, Rika Kuramitsu, Zeynep Yücel, Akito Monden, Koichi Takeuchi
Dependence of perception of vocabulary difficulty on contexture
Int. Conf. Learning Technologies and Learning Environments (LTLE), (*in press*)
Dec 2023, Bali, Indonesia
- 31 Natchanon Manatphaiboon, Shogo Hamachi, Zeynep Yücel, Pattara Leelaprute, Akito Monden
Experiment design and verification for assessing the acquisition of strategic planning ability
Int. Conf. Learning Technologies and Learning Environments (LTLE), (*in press*)
Dec 2023, Bali, Indonesia
- 32 Natsu Nishimura, Zeynep Yücel, Akito Monden
Using a personality-aware recommendation system for comparing inventory performances
Int. Conf. Smart Computing and Artificial Intelligence (SCAI), (*in press*)
Dec 2023, Bali, Indonesia
- 33 Kengo Matsui, Timothée Languille, Zeynep Yücel
Effect of tool specificity on the performance of DNN-based saliency prediction methods
Int. Conf. Smart Computing and Artificial Intelligence (SCAI), (*in press*)
Dec 2023, Bali, Indonesia
- 34 Adrien Gregorj, Zeynep Yücel, Francesco Zanlungo, Takayuki Kanda

Asymmetries in group-individual collision avoidance due to social factors

Pedestrian and Evacuation dynamics (PED 2023) (*presented, proceeding article under review*)

June 2023, Eindhoven, The Netherlands

- 35 Francesco Zanlungo, Zeynep Yücel, Claudio Feliciani, Katsuhiro Nishinari, Takayuki Kanda
Congestion Number analysis of cross-flow dynamics: experimental data and simulations
Pedestrian and Evacuation dynamics (PED 2023) (*presented, proceeding article under review*)
June 2023, Eindhoven, The Netherlands
- 36 Chigusa Ikeda, Parisa Supitayakul, Zeynep Yücel, Akito Monden
Developing a web application for RBSC-based solution of the subset selection problem
Proc. International Conference on E-Service and Knowledge Management (ESKM-Winter 2022), pp. 57-61.
Dec 2022, Phuket, Thailand
<https://doi.org/10.1109/IIAI-AAI-Winter58034.2022.00021>
- 37 Terumi Kasahara, Parisa Supitayakul, Zeynep Yücel, Akito Monden
Examination of the relation between affective content of images and gaze behavior
Proc. Smart Computing and Artificial Intelligence (SCAI-Winter 2022), pp. 101-107.
Dec 2022, Phuket, Thailand
<https://doi.org/10.1109/IIAI-AAI-Winter58034.2022.00030>
- 38 Shogo Hamachi, Parisa Supitayakul, Zeynep Yücel, Akito Monden
Investigation of the relation between task engagement and eye gaze
Proc. Smart Computing and Artificial Intelligence (SCAI-Winter 2022), pp. 163-167.
Dec 2022, Phuket, Thailand
<https://doi.org/10.1109/IIAI-AAI-Winter58034.2022.00041>
- 39 Francesco Zanlungo, Claudio Feliciani, Hisashi Murakami, Zeynep Yücel, Xiaolu Jia, Katsuhiro Nishinari, Takayuki Kanda
Density dependence of stripe formation in a cross-flow
Proc. International Conference on Traffic and Granular Flow (TGF 2022), (presentation only, without proceedings)
Oct 2022, New Delhi, India (Online/hybrid)
- 40 Adrien Gregorj, Zeynep Yücel, Francesco Zanlungo, Takayuki Kanda
On the influence of group social interaction on intrusive behaviors
Proc. International Conference on Traffic and Granular Flow (TGF 2022), (*presented, proceeding article under review*)
Oct 2022, New Delhi, India (Online/hybrid)
Click [here](#) for video presentation.

- 41 Parisa Supitayakul, Zeynep Yücel, Misato Nose, Akito Monden
Investigating the effect of various types of audio reinforcement on memory retention
Proc. Learning Technologies and Learning Environments (LTLE 2022), pp. 250-255
Jul 2022, Kanazawa, Japan (Online/hybrid)
* *This article won the Outstanding Paper Award at LTLE 2022.*
<http://dx.doi.org/10.1109/IIAIAAI55812.2022.00057>
Click [here](#) for video presentation.
- 42 Kohei Furuya, Zeynep Yücel, Parisa Supitayakul, Akito Monden
A computationally efficient approach for solving RBSC-based formulation of the subset selection problem
Proc. International Conference on Smart Computing and Artificial Intelligence (SCAI 2022), pp. 341-347
Jul 2022, Kanazawa, Japan (Online/hybrid)
<https://doi.org/10.1109/IIAIAAI55812.2022.00076>
* *This article won the Honorable Mention Award at SCAI 2022.*
Click [here](#) for video presentation.
- 43 Kohei Furuya, Zeynep Yücel, Parisa Supitayakul, Akito Monden, Pattara Leelaprute
Exploring the limits of an RBSC-based approach in solving the subset selection problem
Proc. International Conference on Smart Computing and Artificial Intelligence (SCAI 2021), vol 81, pp. 1-11
Dec 2021, Jakarta/Indonesia-Tokyo/Japan (Online/hybrid)
<https://doi.org/10.29007/1131>
Click [here](#) for video presentation.
- 44 Kazuma Ohta, Zeynep Yücel, Parisa Supitayakul, Akito Monden, Pattara Leelaprute
On the interplay between vocal production effect and learning content types in e-learning settings
Proc. International Conference on Learning Technologies and Learning Environments (LTLE 2021), vol 81, pp. 303-312.
Dec 2021, Jakarta/Indonesia-Tokyo/Japan (Online/hybrid)
<https://doi.org/10.29007/mp5>
Click [here](#) for video presentation.
- 45 Adrien Gregorj, Zeynep Yücel, Francesco Zanlungo, Claudio Feliciani, Takayuki Kanda
On the influence of group social relation on the dynamics of pedestrians outside the group
Pedestrian and Evacuation Dynamics (PED 2021), *presentation only*
Dec 2021, Melbourne, Australia (Online)
Click [here](#) for video presentation.

- 46 Francesco Zanlungo, Claudio Feliciani, Zeynep Yücel, Katsuhiko Nishinari, Takayuki Kanda
Crowd congestion number
Pedestrian and Evacuation Dynamics (PED 2021), *presentation only*
Dec 2021, Melbourne, Australia (Online)
Click [here](#) for video presentation.
- 47 Hiroto Nakahara, Akito Monden, Zeynep Yücel
A Simulation Model of Software Quality Assurance in the Software Lifecycle
Proc. International Summer Virtual Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2021), No. WP1-04, pp. 1-6.
Nov 2021, Taichung, Taiwan
<http://dx.doi.org/10.1109/SNPD51163.2021.9704927>
- 48 Takumi Kanehira, Akito Monden, Zeynep Yücel
Association Metrics Between Two Continuous Variables for Software Project Data
Proc. International Summer Virtual Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2021), No. WP1-05, pp. 1-6.
Nov 2021, Taichung, Taiwan
<http://dx.doi.org/10.1109/SNPD51163.2021.9704983>
- 49 Parisa Supitayakul, Zeynep Yücel, Akito Monden, Pattara Leelaprute
Investigating effect of stimulus modality on recollection rate in e-learning systems
Proc. International Conference on Learning Technologies and Learning Environments (LTLE 2020), pp. 138-141
Sep 2020, Tokyo, Japan (Online)
<https://doi.org/10.1109/IIAI-AAI50415.2020.00036>
- 50 Pimwalun Witchawanitchanun, Zeynep Yücel Akito Monden, Pattara Leelaprute
Effect of grasping uniformity on estimation of grasping region from gaze data
Proc. International Conference on Human-Agent Interaction, pp. 265-267
Oct 2019, Kyoto, Japan
<https://doi.org/10.1145/3349537.3352787>
- 51 Serina Koyama, Zeynep Yücel, Akito Monden
Quantitative evaluation of the relation between blink related features and engagement
Proc. European Conference on Visual Perception (ECVP 2019), pp. 731-731
Aug 2019, Leuven, Belgium
<https://doi.org/10.1177/0301006619863862>
- 52 Adrien Gregorj, Zeynep Yücel, Sunao Hara, Akito Monden, Masahiro Shiomi
A signal processing perspective on human gait: Decoupling walking oscillations and gestures.

- Proc. International Conference on Interactive Collaborative Robotics (ICR 2019), pp. 75-85
Aug 2019, Istanbul, Turkey
https://doi.org/10.1007/978-3-030-26118-4_8
- 53 Zeynep Yücel, Francesco Zanlungo, Takayuki Kanda
Gender profiling of pedestrian dyads
Proc. Traffic and Granular Flow (TGF 2019), Springer Proceedings in Physics, Vol 252, pp. 229-305
July 2019, Pamplona, Spain
https://doi.org/10.1007/978-3-030-55973-1_37
- 54 Francesco Zanlungo, Luca Crociani, Zeynep Yücel, Takayuki Kanda
The effect of social groups on the dynamics of bi-directional pedestrian flow: a numerical study
Proc. Traffic and Granular Flow (TGF 2019), Springer Proceedings in Physics, Vol 252, pp. 307-313
July 2019, Pamplona, Spain
https://doi.org/10.1007/978-3-030-55973-1_38
- 55 Parisa Supitayakul, Zeynep Yücel, Akito Monden, Pattara Leelaprute
Assessing the effect of varying word classes on behavioral variables in technology mediated vocabulary learning
Proc. International Conference on Learning Technologies and Learning Environments, (LTLE 2019), pp. 226-229
July 2019, Toyama, Japan
<https://doi.org/10.1109/IIAI-AAI.2019.00052>
- 56 Toshiki Seto, Akito Monden, Zeynep Yücel, Yuichiro Kanzaki
On Preventing Symbolic Execution Attacks by Low Cost Obfuscation
Proc. International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019), pp. 495-500
July 2019, Toyama, Japan
<https://doi.org/10.1109/SNPD.2019.8935642>
- 57 Kento Korenaga, Akito Monden, Zeynep Yücel
Data Smoothing for Software Effort Estimation
Proc. International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019), pp. 501-506
July 2019, Toyama, Japan
<https://doi.org/10.1109/SNPD.2019.8935841>
- 58 Kazuya Tanaka, Akito Monden, Zeynep Yücel
Prediction of Software Defects Using Automated Machine Learning

Proc. International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing, (SNPD 2019), pp. 490-494
July 2019, Toyama, Japan
<https://doi.org/10.1109/SNPD.2019.8935839>

- 59 Maohua Gan, Kentaro Sasaki, Akito Monden, Zeynep Yücel
Generation of Mimic Software Project Data Sets for Software Engineering Research
International Workshop on Quantitative Approaches to Software Quality (QuASoQ 2018, in conjunction with Asia-Pacific Software Engineering Conference APSEC 2018), CEUR Workshop Proceedings Vol 2273, pp. 38-43
Dec 2018, Nara, Japan
ISSN: 1613-0073
- 60 Seiji Fukui, Akito Monden, Zeynep Yücel
Kurtosis and Skewness Adjustment for Software Effort Estimation
Proc. 25th Asia-Pacific Software Engineering Conference, APSEC 2018, pp.pp. 504-511
Dec 2018, Nara, Japan
<https://doi.org/10.1109/APSEC.2018.00065>
- 61 Tanakan Pramot, Zeynep Yücel, Akito Monden, Pattara Leelaprute
Effect of motivation on gaze behavior over time
Workshop on Active vision, Attention and Learning (EPIROB-ICDL 2018) (*published online*)
Sep 2018, Tokyo, Japan
- 62 Zeynep Yücel, Zanlungo, Claudio Feliciani, Adren Gregorj, Takayuki Kanda
Estimating social relation from trajectories
Proc. Pedestrian and Evacuation Dynamics (PED 2018), pp. 222-229
Aug 2018, Lund, Sweden
<https://doi.org/10.17815/CD.2020.54>
- 63 Francesco Zanlungo, Luis Yoichi Morales, Florent Ferreri, Jani Even, Zeynep Yücel, Takayuki Kanda
Pedestrian Models for Robot Motion
Proc. Pedestrian and Evacuation Dynamics (PED 2018), pp. 525-527
Aug 2018, Lund, Sweden
<https://doi.org/10.17815/CD.2020.90>
- 64 Francesco Zanlungo, Zeynep Yücel, Takayuki Kanda
Social group behavior in triads: dependence on purpose and gender
Pedestrian and Evacuation Dynamics (PED 2018), pp. 118-125
Aug 2018, Lund, Sweden
<https://doi.org/10.17815/CD.2020.41>

- 65 Hidekazu Saito, Akito Monden, Zeynep Yücel
Extended Association Rule Mining with Correlation Functions
Proc. 3rd IEEE/ACIS International Conference on Big Data, Cloud Computing, and Data Science Engineering (BCD 2018), pp. 79-84
July 2018, Kanazawa, Japan
<https://doi.org/10.1109/BCD2018.2018.00020>
- 66 Naoki Kinoshita, Masateru Tsunoda, Akito Monden, Zeynep Yücel
Predictability classification for software effort estimation
Proc. 3rd IEEE/ACIS International Conference on Big Data, Cloud Computing, and Data Science Engineering (BCD 2018), pp. 43-48
July 2018, Kanazawa, Japan
<https://doi.org/10.1109/BCD2018.2018.00015>
- 67 Zeynep Yücel, Francesco Zanlungo, Masahiro Shiomi
Walk the talk: Gestures in mobile interaction
Proc. International Conference on Social Robotics (ICSR 2017), pp. 220-230
Nov 2017, Tsukuba, Japan
https://doi.org/10.1007/978-3-319-70022-9_22
- 68 Francesco Zanlungo, Zeynep Yücel, Florent Ferreri, Jani Even, Luis Yoichi Morales, Takayuki Kanda
Social group motion in robots
Proc. International Conference on Social Robotics (ICSR 2017), pp. 474-484
Nov 2017, Tsukuba, Japan
https://doi.org/10.1007/978-3-319-70022-9_47
- 69^(†) Francesco Zanlungo, Zeynep Yücel, Florent Ferreri, Jani Even, Luis Yoichi Morales, Takayuki Kanda
Autonomous vehicles moving as a human group
Extended abstract in IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2017), *published online*
Sep 2017, Vancouver, Canada
- 70 Francesco Zanlungo, Zeynep Yücel, Takayuki Kanda
The effect of social roles on group behaviour
Proc. Pedestrian and Evacuation Dynamics (PED 2016), pp. 243-249
Oct 2016, Hefei, China
<https://doi.org/10.17815/CD.2016.11>
- 71 Zeynep Yücel, Takahiro Miyashita, Norihiro Hagita
Modeling and Identification of Group Motion via Compound Evaluation of Positional and Directional Cues
Proc. International Conference on Pattern Recognition (ICPR 2012), pp. 1172-1176
Nov 2012, Tsukuba, Japan

- 72 Zeynep Yücel, Francesco Zanlungo, Tetshushi Ikeda, Takahiro Miyashita, Norihiro Hagita
Modeling Indicators of Coherent Motion
Proc. IEEE/RSJ International Conf. on Intelligent Robots and Systems (IROS 2012), pp. 2134-2140
Oct 2012, Algarve, Portugal
<https://doi.org/10.1109/IROS.2012.6385744>
- 73 Zeynep Yücel, Tetshushi Ikeda, Takahiro Miyashita, Norihiro Hagita
Identification of Mobile Entities Based on Trajectory and Shape Information
Proc. IEEE/RSJ International Conf. on Intelligent Robots and Systems (IROS 2011), pp. 3589-3594
Oct 2011, San Francisco, USA
<https://doi.org/10.1109/IROS.2011.6094852>
- 74 Zeynep Yücel, Albert Ali Salah, Çetin Meriçli, Tekin Meriçli
Joint Visual Attention Modeling for Naturally Interacting Robotic Agents
Proc. IEEE International Symposium on Computer and Information Sciences (ISCIS 2009), pp. 242-247
Sep 2009, Guzelyurt, Cyprus
<https://doi.org/10.1109/ISCIS.2009.5291820>
- 75 Zeynep Yücel, Albert Ali Salah
Resolution of Focus of Attention Using Gaze Direction Estimation and Saliency computation
Proc. International Conference on Affective Computing and Intelligent Interaction (ACII 2009), pp. 1-6
Sep 2009, Amsterdam, The Netherlands
<https://doi.org/10.1109/ACII.2009.5349547>
- 76 Zeynep Yücel, Albert Ali Salah
Head Pose and Neural Network Based Gaze Direction Estimation for Joint Attention Modeling in Embodied Agents
Proc. The Annual Meeting of Cognitive Science Society (CogSci 2009), pp. 3139-3144
July 2009, Amsterdam, The Netherlands
- 77 Roberto Valenti, Zeynep Yücel, Theo Gevers
Robustifying Eye Center Localization by Head Pose Cues
Proc. IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2009), pp. 612-618
June 2009, Miami, USA
<https://doi.org/10.1109/CVPR.2009.5206640>

- 78 Zeynep Yücel, Arif Bülent Özgüler
 Detection of Epileptic Indicators on Clinical Subbands of EEG
 Proc. The European Signal Processing Conference (EUSIPCO 2008), pp. 1-5
 Aug 2008, Lausanne, Switzerland
- 79 Zeynep Yücel, Arif Bülent Özgüler
 An Image Watermarking Algorithm via Zero Assigned Filter Banks
 Proc. IEEE International Symposium on Signal Processing & Information Technology
 (ISSPIT 2005), pp. 363-368
 Dec 2005, Athens, Greece
<https://doi.org/10.1109/ISSPIT.2005.1577124>
- 80 Zeynep Yücel, Arif Bülent Özgüler
 An Audio Watermarking Algorithm via Zero Assigned Filter Banks
 Proc. European Signal Processing Conference (EUSIPCO 2005), pp. 1-4
 Sep 2005, Antalya, Turkey

National conference
 articles

The articles below are given in reverse chronological order. The articles written in a language other than English are indicated with (), and the articles without peer-review are indicated with (†) next to the counter.*

- 81(*) 金平拓生, 門田暁人, Zeynep Yücel, 福谷圭吾,
 行レベルバグ予測のための Web アプリケーション
 ソフトウェア工学の基礎ワークショップ (FOSE 2019) *in press*
 Nov 2019, Gifu, Japan
- 82(*) 井下 瑚都, Zeynep Yücel, 門田 暁人
 ソフトウェア開発における context switch の影響
 ソフトウェア工学の基礎ワークショップ (FOSE 2019) *in press*
 Nov 2019, Gifu, Japan
- 83(*) 笠木 健希, 門田 暁人, Zeynep Yücel
 ソフトウェアバグ予測の費用対効果に基づくアソシエーションルールの優先順位
 付け
 ソフトウェア工学の基礎ワークショップ (FOSE 2019) *in press*
 Nov 2019, Gifu, Japan
- 84(†) Hoang Nguyen, Serina Koyama, Zeynep Yücel, Akito Monden, Mariko Sasakura
 Estimation of affect scores accounting for user responsiveness
 Proc. Annual Conference of the Robotics Society of Japan (RSJ 2018), 1I2-01
 Sep 2018, Aichi, Japan

- 85(*) 清水良介, 門田暁人, Zeynep Yücel, 上野 秀剛
計算機上のソフトウェア開発作業の自動推定の検討
ウィンターワークショップ2018・イン・宮島, pp. 30-31
Jan 2018, Miyajima, Japan
- 86(*) 福谷 圭吾, 門田 暁人, Zeynep Yücel, 畑 秀明
ソフトウェアバグの行レベル予測の試み
ソフトウェア工学の基礎ワークショップ (FOSE 2017), pp.105-100
Nov 2017, Fukui, Japan
- 87(†) Parisa Supitayakul, Zeynep Yücel, Francesco Zanlungo, Akito Monden, Pattara Leelaprute
Calibration of distributed multimodal sensor networks using cross-correlation of arrival processes
Proc. Annual Conference of the Robotics Society of Japan (RSJ 2017), 1C3-05
Sep 2017, Saitama, Japan
- 88(*†) Zeynep Yücel, Francesco Zanlungo, Masahiro Shiomi
Modeling effect of interaction on motion patterns of pedestrian groups (*in Japanese*)
Proc. Annual Conference of the Robotics Society of Japan (RSJ 2016), 3W2-04, July 2016
- 89(*) Zeynep Yücel, Albert Ali Salah, Çetin Meriçli, Tekin Meriçli
Derivation of Gaze Direction from Head Pose Estimates (*in Turkish*)
Proc. IEEE Signal Processing and Communication Applications Conference, pp. 224-227, SIU 2010.
<https://doi.org/10.1109/SIU.2010.5652736>
- 90(*) Zeynep Yücel, Roberto Valenti, Nicu Sebe
Cylindrical Model Based Head Pose Estimation for Drivers (*in Turkish*)
Proc. IEEE Signal Processing and Communication Applications Conference, pp. 213-216, SIU 2009.
<https://doi.org/10.1109/SIU.2009.5136370>
- 91(*) Zeynep Yücel, Arif Bülent Özgüler
Detection of Epilepsy Seizures and Epileptic Indicators in EEG Signals (*in Turkish*)
Proc. IEEE Signal Processing and Communication Applications Conference, SIU 2008, pp. 1-4, 2008.
<https://doi.org/10.1109/SIU.2008.4632759>
- 92(*) Zeynep Yücel, Emre Esen, Pınar Duygulu, Yıldırı Sara, Rüştü Onur, Arif Bülent Özgüler
Computer vision based classification of videos of mice under the influence of several psychotropic drugs (*in Turkish*)

National Congress of Pharmacology, 2007.

- 93(*) Emre Esen, Zeynep Yücel, Yıldırım Sara, Pınar Duygulu, Rüştü Onur
Discrimination of pharmaceutical agents that cause locomotor activity changes in mice using computer software (*in Turkish*)
National Congress of Pharmacology, 2007.

- 94(*) Zeynep Yücel, Arif Bülent Özgüler
Color and Grey Level Image Watermarking via Zero Assigned Filter Banks (*in Turkish*)
Proc. IEEE Signal Processing and Communication Applications Conference, SIU 2006.
<https://doi.org/10.1109/SIU.2006.1659862>

Theses

- 95 Zeynep Yücel
Computer Vision Based Behaviour Analysis
PhD Thesis - Bilkent University, Ankara, Turkey, 2009.
- 96 Zeynep Yücel
Watermarking via Zero Assigned Filter Banks
MS Thesis - Bilkent University, Ankara, Turkey, 2005.

Patents

- 97 Zeynep Yücel, Tetshushi Ikeda, Takahiro Miyashita, Norihiro Hagita, "Tracking and Identification of Mobile Entities Based on Trajectory and Shape Information
Patent Application No. 2011-204031 (granted).

Teaching experience

Undergraduate

The courses below are taught in Okayama University and the teaching language is Japanese.

Graph Theory
Algorithms and Computational Complexity
Mathematical Logic
Safety and Security Management for Engineers
Information Technology Experiments B (Media Processing, as coordinator)

Graduate

The courses below are taught in Okayama University and the teaching language is specified in parenthesis.

Advanced Linear Algebra (*in English*)
Topics in Electronic and Information Systems Engineering (*in Japanese, as teacher and coordinator*)

As teaching assistant

The courses below are taught in Bilkent University and the teaching language is English.

Introduction to Electrical Engineering
Linear Algebra and Differential Equations
Feedback Control Systems
Digital Control
Nonlinear Systems
Electronics I

Invited talks

- Aug 2018 Istanbul Technical University, Department of Computer Science
Interaction in Dynamic Scenarios of HRI
- Aug 2018 Linnaeus University, Department of computer science and media technology
Considerations in the design of social interaction robots
- Dec 2017 Nishinari Lab, Tokyo University
Human behavior understanding for social robotics
- Sep 2017 MHUG, Trento University, Trento, Italy
Interaction in Static and Dynamic Scenarios of HRI
- Aug 2017 Milano Bicocca University, Milan, Italy
Pedestrian Group Interaction for Social Robotics Applications
- Aug 2017 BYOYO 2017, Hacettepe University, Ankara, Turkey
Social interaction robots

Other activities

Journal Reviewing

Physica A: Statistical Mechanics and its Applications
Signal, Image and Video Processing
IEEE Tran Signal Processing
IEEE Tran Multimedia
IEEE Tran Affective Computing
IEEE Tran Information Forensics and Security
IEEE Access
Elsevier Digital Signal Processing
Elsevier Signal Processing
Eurasip Journal on Advances in Signal Processing
PeerJ Computer Science
Int J Geo-information
Springer Multimedia Tools and Applications
Safety Science
Sage Open

Fire Safety

Heliyon

Conference
Reviewing

Int Conf Social Robotics (ICSR)

Int Conf Intelligent Robots and Systems (IROS)

Int Conf Robotics and Automation (ICRA)

Int Conf Multimodal Interaction (ICMI)

Int Conf Pattern Recognition (ICPR)

Int Conf Affective Computing and Intelligent Interaction (ACII)

Int Symp Computer and Information Sciences (ISCIS)

Signal Processing and Communication Application (SIU)

European Signal Processing Conference (EUSIPCO)

IEEE Symposium on Signal Processing and Information Technology (ISSPIT)

Humanoids

Pedestrian and Evacuation Dynamics (PED)

Organization

PC member of International Conference on Smart Computing and Artificial Intelligence, SCAI 2024

2023年度(第74回)電気・情報関連学会中国支部連合大会 (2023 Chugoku Section Joint Conference of Electrical and Information Society)

Int Conf on Pedestrian and Evacuation Dynamics, PED 2023

PC member of Int Conf on Speech and Computer, Specom 2023

PC member of Int Workshop on Computational Intelligence for Multimedia Understanding, IWCIM 2023 (at IEEE ICASSP 2023)

PC member of Int Conf on Speech and Computer, Specom 2022

PC member of Int Conf on Speech and Computer, Specom 2021

PC member of Int Conf on Speech and Computer, Specom 2020

PC member of Int Conf on Social Robotics, ICSR 2019

PC member of Int Conf on Speech and Computer, ICR 2019

PC member of Int Workshop on Human Behavior Understanding, HBU 2018

PC member of Int Workshop on Human Behavior Understanding, HBU 2012

Administrative
duties

Apr 2021 - Library steering committee of Okayama University

Apr 2020 - Diversity & Inclusion committee of Okayama University

Apr 2022 - Public relations committee of Faculty of Engineering of Okayama University

Apr 2021 - Electronic Journal Subscription Working Group of Faculty of Engineering of Okayama University

Apr 2023 - Academic adviser to 2022 enrollment students of Department of Information Science of Okayama University

Computer skills

C++, OpenCV, Java

Python, MATLAB, Scilab

Latex

Languages

Self-assessment European level [CEFR](#) (C2 maximum evaluation)

(*) Holder of N3 (third highest) level of Japanese proficiency approved in 2014 by JLPT

		Comprehension		Speaking		Writing
		Listening	Reading	Interaction	Production	
Turkish	Mother Tongue					
English	Advanced	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>
Japanese(*)	Intermediate	<i>C1</i>	<i>B1</i>	<i>C1</i>	<i>B2</i>	<i>B2</i>
Italian	Intermediate	<i>B1</i>	<i>B1</i>	<i>B2</i>	<i>B2</i>	<i>B1</i>
German	Intermediate	<i>B1</i>	<i>B2</i>	<i>A2</i>	<i>A2</i>	<i>A2</i>