

# International Study Visit, CERTH, Greece 11-13 Feb 2020

***Istanbul Technical University***

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# Istanbul Technical University

- Oldest technical university in Turkey (1773)
- One of the most prominent educational institutions in Turkey
- Department of Computer Engineering accepts students from the top 0.1% of central university entrance exam



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# About myself

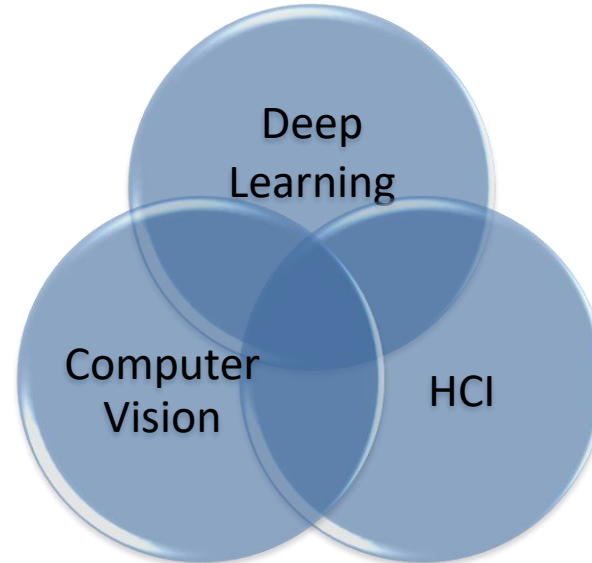
- Prof. @ Dept. of Computer Engineering, Istanbul Technical Univ. (ITU)
- Host Prof. @ Signal Processing Lab 5 (LTS5), EPFL
- Keywords: Computer Vision, Deep/Machine Learning, Biometrics, Security & Surveillance Apps
- 100+ pubs, ~3000 citations
- Has founded Facial Image Processing and Analysis Group (face.cs.kit.edu), Faculty of Computer Science in Karlsruhe Institute of Technology (KIT)
- Faculty member of International Center for Advanced Communication Technologies (interACT) - --CMU, HKUST, Waseda Univ.
- Awarded within the framework of the Excellence Initiative of German Research Foundation (DFG) in 2010.
- Received the EBF European Biometric Research Award 2008.
- PhD in Computer Science in Feb. 2009 from KIT, BS'01 and MS'03 in EE from Boğaziçi Univ.

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# About SiMiT Lab ([simitlab.itu.edu.tr](http://simitlab.itu.edu.tr))



## Research Areas:



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# R&D References

- Management Committee Member, "**Indoor Living Space Improvement: Smart Habitat for the Elderly**", Cost Action (2017-2021)
- Management Committee Member, "**Algorithms, Architectures and Platforms for Enhanced Living Environments (AAPELE)**", Cost Action (2013 – 2017)
- Principal Investigator, "**Multimodal Face Processing**", funded by European Union under the FP7 Marie Skłodowska-Curie Actions (2013 – 2017)
- Principal Investigator, "**Artificial Vision for Assisting Visually Impaired in Social Interactions**", bilateral Turkish (TUBITAK) & German (BMBF) project (2014 – 2017)
- Principal Investigator, "**Game Development for Visually Impaired to Improve Sight**", funded by Türk Telekom (2015 – 2016)
- Researcher, "**VIPSAFE: Automated Visual monitoring for Improving Patient SAFety**", funded by German Federal Ministry of Education and Research
- Task Leader, "**CHIL – Computers in the Human Interaction Loop**" funded by European Union under the Sixth Framework Programme

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# Specific Topics and Calls

- ICT-46-2020: Robotics in Application Areas and Coordination & Support
  - Perception of robot's interaction partner & its environment
  - “Organic Machine Learning” project
- SC1--DTH--04--2020: International cooperation in smart living environments for ageing people
  - Detecting, tracking & analysis of elderly in a smart living environment
  - "Indoor Living Space Improvement: Smart Habitat for the Elderly" project
- AI for the smart hospital of the future
  - Perception of individuals in a smart hospital, patient monitoring
  - “VIPS SAFE: Automated Visual monitoring for Improving Patient SAFETy” project

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# Collaboration Offer

- Extensive experience in facial image processing and analysis
  - Face identification
  - Facial expression analysis
  - Face modelling
- Experience in various health oriented applications of computer vision and machine learning/deep learning
  - Skin lesion segmentation
  - Vision-based game design and assessment for physical exercise
  - Medical data analysis
- Tight research connections with KIT, Germany & EPFL, Switzerland
- Plan to be partner
- Collaboration opportunities in healthcare and assistive technology applications

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