

Curriculum Vitae

Atanas Gotchev

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PERSONAL DETAILS	Surname: Gotchev	First names: Atanas, Piankov
	ORCID ID: 0000-0003-2320-1000	Date of birth: 22.12.1965
	Citizenship: Bulgarian	Place of birth: Plovdiv, Bulgaria
	Phone: +358 40 8490733	email: atanas.gotchev@tuni.fi
EDUCATION AND DEGREES	09/2012, Docent , Tampere University of Technology, Finland	
	09/2003, Doctor of Technology , Tampere University of Technology, Finland	
	10/1996, PhD , Institute of Information Technologies, Bulgarian Academy of Sciences	
	1992, M.Sc. degree in Applied Mathematics , Institute of Applied Mathematics and Informatics, Technical University – Sofia, Bulgaria	
	06/1990 M.Sc. degree in Electronics and Automation Engineering , Faculty of Communications Technologies, Technical University – Sofia	
CURRENT POSITION	2016 – Present, Professor of Signal Processing , Unit of Computing Sciences, Tampere University, Finland	
PREVIOUS POSITIONS	2013 – 2016, Associated Professor (tenure track) , Department of Signal Processing, TUT	
	2010 – 2015, Academy of Finland Research Fellow , Department of Signal Processing, TUT	
	2000 – 2010, Senior Researcher , Department of Signal Processing, TUT	
	1993 – 1999, Research Fellow , Institute of Information Technologies (IIT), Bulgarian Academy of Sciences, Bulgaria	
	1991-1993, Research Assistant , Joint appointment with IIT and Military Medical Academy, Sofia, Bulgaria	
PERSONAL RESEARCH FUNDING AND GRANTS	2021 – 2026 TAU Imaging Research Platform , Academy of Finland, 3 172 500 €, Vice-Director	
	2020 – 2021 MAGICS: National Infrastructure for human virtualization and remote presence , Academy of Finland, 1 507 600 €, Consortium Vice-Director, PI of TAU site.	
	2021 – 2024 Marie Curie Innovative Training Network: European Joint Doctorate on Plenoptic Imaging (Plenoptima) , European Commission, 1 123 223 €, Network Coordinator.	
	2019 – 2023 Modelling and Visualization of Perceivable Light Fields , Academy of Finland, 598 000 €, Principal Investigator.	
	2018 – 2020 RemoteFeel: Digital Feel for Accurate and Fast Remote Operation of Work Machines , Business Finland/FIMA, 460 000 €, Project Leader.	
	2018 – 2021 Marie Curie Innovative Training Network: Immersive Visual Technologies for Safety-critical Applications (ImmerSAFE) , European Commission, 1 118 476 €, Network Coordinator.	
	2015 – 2019 Marie Curie Innovative Training Network: European Training Network on Full Parallax Imaging (ETN-FPI) , European Commission, 875 250 €, Network Coordinator.	
	2015 – 2022 Computer-Aided Teleoperation Tools for Remote Handling Control System, 4 Grants , Fusion for Energy (the EU's Joint Undertaking for ITER), ~800 000 €, WP leader.	
	2015 – 2016 Mobile Light Field Terminal , Samsung/ETRI, through the GigaKorea project, South Korea, 32 000 €, Project Leader.	
	2014 – 2016 Research Centre for Immersive Visual Technologies , Academy of Finland and TUT, 2 000 000 €, Principal Investigator.	
	2013 – 2016 Marie Curie Industry-Academia Partnership Pathways Action PROLIGHT-IAPP , European Commission, 568 845 €, Project Manager.	
	2012 – 2016 COST Action IC1105 - 3D Content Creation, Coding and Transmission over Future Media Networks, 3D-ConTourNet , European Commission, ~30 000 €, Action Vice-Chair	
	2010 – 2015 Academy Research Fellow post , Academy of Finland, 598 520 €, PI.	

2010 – 2013 **StereoScale and HoloScale**, Electronics and Telecommunications Research Institute (ETRI), South Korea, 75 000 €, Project Leader.

2010 – 2012 **Mobile 3D Quality of Experience**, Nokia Research Center – 162 000 €, Project Leader.

2009 – 2016 **AVIPA3(4) 3D Video and FAVS**, NRC/TEKES – 869 000 €, Project Leader.

2008 – 2010 **MOBILE3DTV**, European Commission – 700 000 €, Scientific Coordinator.

2014 – Present, **Head of 3D Media Group**

2014 – Present, **Director of Centre for Immersive Visual Technologies (CIVIT)**

Supervised postdoctoral researchers: Ugur Akpınar (2024-), Jani Mäkinen (2024-), Erdem Sahin (2014-2018), Ionut Schiopu (2016-2017), Atanas Boev (2012-2014).

Supervised doctoral students: On-going: Ugur Gudelek, Zhang Qi, Yuta Miyanishi, Filipe Gama, Aleksandra Chuchvara, Olli Suominen, Ugur Akpınar (2023), Jani Mäkinen (2023), Laura Ribeiro (2023), Ihtisham Ali (2023), Suren Vaghashakyan (2020), Peter Kovacs, (2018), Mihail Georgiev, (2018). Lina Jin, (2015, co-supervised with Prof. Karen Egiazarian). Atanas Boev, (2012, co-supervised with Prof. Karen Egiazarian). Vladislav Uzunov, (2011, co-supervised with Prof. Karen Egiazarian). Andrey Norkin, (2007, co-supervised with Prof. Jaakko Astola).

Supervised MSc theses: 42 students for the period 1997 – 2023

LEADERSHIP AND
SUPERVISION
EXPERIENCE

TEACHING EXPERIENCE

2001 – 2022 **Teaching** at Tampere University and TUT. Courses: “3D and Virtual Reality” (2013-2022), ”Basic Course in Signal Processing” (2013-2014), “Basic Course in Image and Video Processing” (2013), “Image and Video Processing Techniques” (2014-2015), “Advanced Topics in 3D Media Technology Seminar” (2012), “Signal Processing Graduate Seminar III – Multimodal Signal Processing” (2011-2012), “Signal Processing Graduate Seminar II - General Programming on GPUs” (2011), ”3D Media Technology” (2011-2012), “Mobile Imaging” (2008); “Introductory Signal Processing” (2005, 2006), “Digital Image Processing 2” (2005, 2006), “Signal Processing Seminar 2 – 3DTV” (2005), “Signal Processing Laboratory Course – Wavelets” (2001 - 2009);

1997 – 1999 **Teaching Assistant** at French Language Faculty, Technical University – Sofia, Bulgaria. Courses: "Digital Image Processing" (Traitement numerique d'image), "Digital Signal Processing" (Traitement numerique du signal).

ORGANIZING
SCIENTIFIC MEETINGS

Conference Chair: IEEE Int. Workshop on Multimedia Signal Processing (MMSP) 2020/21, Image Processing: Algorithms and Systems, Part of IS&T / SPIE Electronic Imaging Symposium 2012 - 2024. 3DTV-Conference 2010, 2014, 2018. **Technical Program Chair:** Int. Workshop on Hot Topics in 3D - Hot3D 2016, 3DTV-Conference 2009, 2011, 2015 - 2017, Int. workshop on Local and Non-local Image Approximations, LNLA 2009, and LNLA 2008.

PATENTS, INVENTIONS,
AWARDS

5 granted patents and 8 patent applications

2023 Outstanding Editorial Board Member Award, IEEE Transactions on Image Processing

Best Student Paper Award to Ayoung Kim, EUVIP 2022

Best Demo Award, IEEE Int. Conf. Multimedia and Expo, 2019

Diploma of appreciation of notable services, IEEE Circuits and System Society, 2005

OTHER KEY SCIENTIFIC
OR ACADEMIC MERITS

Senior Assoc./Area Editor: J. of Electronic Imaging (2016-), IEEE Trans. Image Proc. (2020-)

Tenure track promotion committee member, University of Utah, USA (2022), **Tenure track selection committee member**, University of Tartu, Estonia (2021), **Opponent, member of assessment committee**, Trinity College Dublin (2021), **Chair of Evaluation Committee**, INRIA (2019); **Examiner of doctoral theses:** Poznan Univ. of Technology (2019), Helsinki Univ. of Technology (2008), Politecnico di Milano (2008); Technical University of Sofia (2008), University of Zagreb (2006). **Reviewer of grant proposals:** DFG grant proposals (2024, 2014), Foundation for Polish Science Fellowship proposal (2019), ERC Consolidator Proposal (2013), COST research proposal at Swiss State Secretariat for Education and Research (2011).

MEMBERSHIPS AND
POSITIONS OF TRUST IN
SCIENTIFIC SOCIETIES

Member, IEEE Technical Committee on Multimedia Signal Processing (2019-). **Chair** of IEEE SP/CAS Chapter of Finland (2003-2005). **Vice-Chair** of IEEE Bulgarian Chapter of Circuits and Systems (1998-1999).