**CURRICULUM VITAE**

**Dr. Tech., IEEE Senior Member, Konstantin Mikhaylov**

**1. Full name and date**

* Family name:Mikhaylov
* Given name:Konstantin
* Gender: male
* Date of CV: 25 September 2019

**2. Date and place of birth, nationality, current residence**

* Date and place of birth:23 July 1985, Leningrad, USSR
* Citizenship: Finland & Russian Federation
* Current residence: Oulu, Finland
* Primary contacts:

University of Oulu, Centre for Wireless Communications (CWC-NS)

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**3. Education and degrees awarded**

* **Doctor of Science in Technology** (grade: excellent), Doctoral Training Committee for Information Technology and Electrical Engineering, University of Oulu, Oulu, Finland.

Major subject: communication engineering,

Minor subject: Internet of things – wireless technologies and design methodologies

Graduation date: 03.05.2018.

Further details: [university.of.oulu@oulu.fi](mailto:university.of.oulu@oulu.fi)

* **Master of Science in Engineering** (grade: excellent)*,*Radio physics Department, Saint-Petersburg State Polytechnical University, Saint-Petersburg, Russian Federation.

Major subject: communication engineering,

Graduation date: 03.06.2008.

* **Bachelor of Science in Engineering** (grade: excellent)*,*Radio physics Department, Saint-Petersburg State Polytechnical University, Saint-Petersburg, Russian Federation.

Major subject: communication engineering,

Graduation date: 21.06.2006.

**4. Other education and training, qualifications and skills**

* **ThingWorx IoT platform introductory course** (40 hrs), PTC University, 15-20.01.2017.

**5. Linguistic skills**

* English:fluent
* Finnish: intermediate
* German: intermediate
* Russian: native

**6. Current positions**

* 1.6.2018 – ***Post-Doctoral Research Fellow*** for Internet of Things (IoT) and wireless Machine-Type Communication (MTC) technologies at Centre for Wireless Communications Network Systems group (CWC-NS), Faculty of Information Technology and Electrical Engineering (ITEE), University of Oulu, Oulu, Finland.
* 8.9.2016 – ***Chief Technical Officer (CTO) and Co-Founder*** at Solmu Technologies OY, Oulu, Finland. The company delivers high-end IoT solutions for various markets and verticals (primary vertical - industry) and provides consultancy services.
* 7.5.2019 – ***Visiting*** ***Post-Doctoral Research Fellow*** for wireless Machine-Type Communication (MTC) technologies at the Faculty of Electrical Engineering and Communication (FEKT), Brno University of Technology, Brno, Czech Republic.

**7. Previous work experience**

**Earlier employment:**

* 1.1.2014-30.5.2018 – *Doctoral Student* (IoT and wireless MTC technologies), CWC-NS, ITEE, University of Oulu, Oulu, Finland.
* 25.08.2008-31.12.2013 – *Project Engineer/Researcher* (Wireless Sensor Networks (WSN) and IoT) at RFMedia Laboratory (Oulu Southern Institute of the University of Oulu/Centria R&D of Central Ostrobothnia University of Applied Sciences), Ylivieska, Finland.
* 1.11.2006-15.08.2008 – *Project Engineer* (radio and embedded systems) at Federal State Unitary Enterprise Research-and-Production Association “Impulse” (Russian Federal Space Agency), St. Petersburg, Russian Federation

**Adjunct positions and long-term research visits:**

* 26.03.2019-06.05.2019 – *Visiting Researcher* (MTC) at King’s College London, London, UK. Prof. Mischa Dohler’s group.
* 15.09.2015-06.12.2015 – *Visiting Researcher* (ultrawideband radio technologies) at Yokohama National University, Yokohama, Japan. Prof. Ryuji Kohno’s laboratory.
* 20.01.2013-23.03.2013 – *Visiting Researcher* (WSN) at Gwangju Institute of Science and Technology, Gwangju, Republic of Korea (i.e., South Korea). Prof. Kiseon Kim’s laboratory.

**8. Research funding, leadership, and supervision**

Konstantin is responsible for the full cycle of project implementation, including preliminary and feasibility studies, drafting and submitting an application, research work and reporting.

**Major research funding:**

*Acted as the (co-) principal investigator (PI) or similar:*

* 1.1.2018-31.12.2019 – Low Power Wide Area Network Evolution (LPWAN-Evolution) project, University of Oulu, *Principal Investigator* (Total budget: 200 000 EUR)
* 1.2.2017-30.9.2017 – Extending IoT signal coverage, Business Finland (HILLA programme), *Principal Investigator* (Total budget: 30 000 EUR)
* 18.03.2016 – Modular Platform for Wireless Sensor and Actuator Networks and Internet of Things, Sähköinsinööriliiton Säätiö, *Principal Investigator* (Personal grant: 2 000 EUR)
* 1.1.2015-31.12.2015 – Wireless Solutions and Infrastructure for Indoor Localization of Mobile Objects and Robots (WIILMOR), University of Oulu, *Co-Principal Investigator* (Total budget: 22 500 EUR, PI not assigned)
* 24.11.2015 – Modular Platform for Wireless Sensor and Actuator Networks and Internet of Things, Nokia Foundation, *Principal Investigator* (Personal grant: 5 000 EUR)
* 02.12.2014 – Modular Platform for Wireless Sensor and Actuator Networks and Internet of Things, Nokia Foundation, *Principal Investigator* (Personal grant: 5 000 EUR)

*Acted as the work package (WP) leader or similar:*

* 1.1.2014-31.12.2016 – Wireless Networking Laboratory (WNL), University of Oulu, *WSN WP leader* (Total budget: 200 000 EUR, PI Prof. Jari Iinatti, University of Oulu)

*Acted as the researcher/contributor or similar:*

* 1.11.2018-31.12.2019 – SP400 project, Business Finland, *Research Scientist* (Total budget: 500 000 EUR, PI Prof. Ari Pouttu, University of Oulu)
* 1.1.2016-31.12.2017 – Peer-to-Peer (P2P) SmarTest, H2020 programme, *Research Scientist* (Total budget: 3 866 215 EUR, PI Prof. Ari Pouttu, University of Oulu)
* 1.1.2016-1.12.2016 – Hands-on IoT for embedded systems and computer systems teaching, University of Oulu, *Contributor* (Total budget: 29 045 EUR, Responsible leader: Mr. Teemu Leppänen, University of Oulu)
* 01.05.2011-31.12.2013– Industrial Pilot Solutions of Embedded Technologies (TEPI), TEKES, *Project Researcher* (PI Dr. Jouni Tervonen, University of Oulu)
* 01.05.2010-30.04.2011– Reaaliaikainen monitorointi sensoriverkkofuusiolla (Real Fusion), TEKES, *Project Researcher* (PI Dr. Jouni Tervonen, University of Oulu)
* 25.08.2008-01.05.2010– Comprehensive Testing (COMPTEST), TEKES, *Project Engineer/Researcher* (PI Dr. Jouni Tervonen, University of Oulu)

**Total funding acquired:**

* As individual applicant: 12 000 EUR
* As project PI or equivalent: 252 500 EUR
* As contributor: over 900 000 EUR

**Supervision of students:**

* As supervisor or advisor for students: 2 Ph.D. and 3 M.Sc. students
* As a technical supervisor during internships: 3 M.Sc. and 2 B.Sc. students
* Examiner/opponent: 2 M.Sc. students
* Follow-up group member: 1 Ph.D. student

**Konstantin is also actively involved in industrial collaboration with** ***Nokia, Ericsson, Vodafone, Inycom, Helvar, Actility, etc.***

**9. Merits in teaching and pedagogical competence**

* Pedagogical training: “Pedagogy and psychology” (89 hours), Saint-Petersburg State Polytechnical University, Saint-Petersburg, Russian Federation
* Contributed to “Hands-on IoT” B. Sc. course (5/8 cr) planning and preparation
* Second supervisor or co-supervisor of theses: 4 M.Sc. and 2 B.Sc. students
* Follow-up group member for 1 Ph.D student

**10. Awards, prizes, and honors**

* 2018 & 2017: **most publishing researcher** of the CWC-NS unit of the University of Oulu (the unit composes over 60 staff members)
* 2017: **innovator** award from CWC, University of Oulu
* 2016: **best demo award** at IEICE International Workshop on Smart Wireless Communications (SmartCom’2016)
* 2014: **best paper award** at IEEE International Conference on Cognitive InfoCommunications (CogInfoCom’2014).

**11. Other academic merits**

* **Senior Member of IEEE** and IEEE Communications Society
* The guest editor of the special issue on “Green Communications and Networking for IoT” of MDPI Sensor Journal (2018)
* Reviewer (referee) in IEEE, Elsevier, Springer, Wiley and MDPI journals, e.g.:

*IEEE Wireless Commun. Let., IEEE Commun. Mag., IEEE Commun. Let., IEEE IoT J., IEEE Sensors, J. Systems & Software, IEEE Access, IEEE Trans. Comput., IEEE Trans. Netw. Service Manag., EURASIP J. Wireless Communications, MDPI Sensors, J. Comput. Networks, MDPI Electronics, J. Sensor Actuator Networks, Asian J. Control.*

* Publicity Chair of Sustainable networking through Machine Learning and Internet of thINGs (SMILING) workshop (in conjunction with IEEE Infocom 2019 (Jufo 2) conference)
* Served as session chair, e.g., at: *IEEE Sensors, IEEE PIMRC, IEEE ICUMT, IEEE/IFIP NTMS*
* Served as TPC member, e.g., at: *IEEE Globecom, IEEE ICC, IEEE PIMRC, IEEE WCNC, ITST, WF-IoT, IEEE AINA, ICUMT, EuCNC*

**12. The scientific and societal impact of research**

* The total number of publications – **82**, of which:
  + A1: 19 peer-reviewed research papers in internationally recognized journals (2012-2019)
  + A3: 3 book chapters (2012, 2019)
  + A4: 50 peer-reviewed research papers in high-level international conferences (2010-2019)
* h-index:16 (Google Scholar), 13 (Scopus), 9 (Web of Science)
* i10-index: 29 (Google Scholar), 21 (Scopus), 9 (Web of Science)
* Total number of citations: 1490 (Google Scholar), 823 (Scopus), 303 (Web of Science)
* Citations to the most cited paper: 312 (Google Scholar), 178 (Scopus), 106 (Web of Science)
* Five (5) invention disclosures (H2)
* Co-founder and chief technical officer (CTO) of a spin-off company (with permission from the University of Oulu)
* Multiple demos, prototypes, and industry-grade proof-of-concept demonstrators