

Dragoş Ştefan Niculescu – publications, contracts, patents

Publications

- G. Bianchi et al, “Superfluidity: a flexible functional architecture for 5G networks”, Transactions on Emerging Telecommunications Technologies ISSN 2161-3915, Sept 2016
- A. Croitoru, D. Niculescu, C. Raiciu "Towards Mobility without Fast Handover", NSDI 2015
- C. Nicuţar, D. Niculescu, C. Raiciu, "Using Cooperation for Low Power Low Latency Cellular Connectivity", CoNEXT 2014
- A. Kumar, K. G. Shin, Y.-J. Choi, D. Niculescu, "On Time-domain Coexistence of Unlicensed and Licensed Spectrum Users", in IEEE DYSpan 2012, pp 223 - 234, ISBN: 978-1-4673-4447-0
- C. Raiciu, D. Niculescu, M. Bagnulo, M Handley, "Opportunistic Mobility with Multipath TCP", in ACM MobiArch 2011, pp 7-12, ISBN: 978-1-4503-0740-6
- D. Niculescu, S. Bhatnagar, S. Ganguly, Channel Assignment for Wireless Meshes with Tree Topology, COMM 2010, pp 383-386, ISBN -4244-6360-2
- D. Niculescu, "Finding MIMO", IEEE ISWPC 2010, May 2010 Modena, Italy, ISBN 978-1-4244-6855-3 , pp. 267-272
- D. Niculescu and K. Kim “Voice Adaptive Gateway Pacer for Wireless Multi-hop Networks”, WICON, martie 2010, pp. 1-9, INSPEC 11261918
- Dragoş , Niculescu, “Interference Map for 802.11 Networks”, ACM IMC 2007, San Diego 2007, pp 339–350. ISBN:978-1-59593-908-1.
- Dragoş , Niculescu, Samrat Ganguly, Kyungtae Kim si Rauf Izmailov, "Performance of VoIP in an 802.11-based Wireless Mesh Network", IEEE INFOCOM, 006, pp 1 - 11, ISSN : 0743-166X
- Dragoş , Niculescu si Badri Nath, "VOR BAsE Stations for Indoor 802.11 Positioning", ACM MOBICOM 2004, Philadelphia, Sept 2004, pp 58-69 ISBN:1-58113-868-7
- Dragoş , Niculescu si Badri Nath, "Error Characteristics of Ad Hoc Positioning Systems", ACM MOBIHOC 2004, pp 20-30, ISBN: 1-58113-849-0
- Dragoş , Niculescu si Badri Nath, "Trajectory Based Forwarding", ACM MOBICOM 2003, pp 260 - 272, ISBN:1-58113-753-2
- Dragoş , Niculescu si Badri Nath, "Ad Hoc Positioning System Using AoA", IEEE INFOCOM 2003, pp 1734 - 1743 vol.3 ISSN : 0743-166X
- Dragoş , Niculescu si Badri Nath, "Localized Positioning in Ad Hoc Networks", IEEE SNPA 2003. pp 42 - 50, ISBN: 0-7803-7879-2
- Badri Nath si Dragoş , Niculescu, "Routing on a Curve", ACM HOTNETS 2002 si SIGCOMM Computer Communication Review 2003, pp 55-60, ISSN:0146-4833

- Dragos , Niculescu si Badri Nath, "Ad Hoc Positioning System (APS)", IEEE GLOBECOM 2001, pp 2926-2931, ISBN: 0-7803-7206-9.
- Dragos , Niculescu si Badri Nath, "Trajectory Based Forwarding and Its Applications", Rutgers DCS-TR-488, May 2002.
- Rauf Izmailov s , i Dragos , Niculescu, "Flow Splitting Approach for Path Provisioning and Path Protection Problems", IEEE HPSR, Kobe Japan, May 2002, pp 93- 98 Print ISBN: 4-88552-184-X
- Dragos , Niculescu, Samrat Ganguly si Brett Vickers, "Dynamic QoS Provisioning in Wireless Data Networks", IEEE VTC, Greece, 2001. pp 2172 - 2176 vol.3, ISBN: 0-7803-6728-6
- K. G. Shin, K.-H. Kim, D. Niculescu, "Mobile Autonomous Router System for Dynamic (Re)formation of Wireless Relay Networks", IEEE Transactions on Mobile Computing, vol 8, iss 12, Dec 2012, ISSN 1536-1233 doi: 10.1109/TMC.2012.160.
- K. Kim, D. Niculescu, S. Hong, Gateway Strategies for VoIP Traffic over Wireless Multihop Networks, KSII transactions on internet and Information Systems, VOL. 5, NO. 1, Jan 2011, pp 24-51, ISSN : 1976-7277
- K. Kim, D. Niculescu and S. Hong, "Coexistence of VoIP and TCP in Wireless Multihop Networks", IEEE Communications Magazine, June 2009, pp 75 – 81, ISSN : 0163-6804
- Vishnu Navda et. al, "Performance Optimization for Deploying VoIP Services in Mesh Networks", JSAC 2006, 2147 - 2158 ISSN : 0733-8716
- Dragos , Niculescu, "Communication Paradigms for Sensor Networks", IEEE Communications Magazine, (March 2005), pp 116 - 122, ISSN : 0163-6804
- Dragos , Niculescu, "Positioning in Ad Hoc Sensor Networks", IEEE Network Magazine, July/August 2004, pp 24 - 29 ISSN : 0890-8044
- Dragos , Niculescu si Badri Nath, "Position si Orientation in Ad Hoc Networks", Elsevier journal of Ad Hoc Networks. Volume 2, Issue 2, April 2004, Pages 133-151 ISSN: 1570-8705
- Dragos , Niculescu si Badri Nath, "Localized Positioning in Ad Hoc Networks", Elsevier journal of Ad Hoc Networks, volume 1(2-3), pp 247-259, ISSN: 1570-8705
- Dragos , Niculescu si Badri Nath, "DV Based Positioning in Ad Hoc Networks", Kluwer journal of Telecommunication Systems, 22(1-4): pp 267-280, April 2003. ISSN 1572-9451
- Dragos , Niculescu, "Forwarding and Positioning Problems in Ad Hoc Networks", teza de doctorat, Universitatea Rutgers, May 2004.

Books, chapters

- Dragos , Niculescu, capitol în "Position Location - Theory, Practice and Advances: A Handbook for Engineers and Academics", Edited by S. Zekavat and M. Buehrer", Wiley 2012
- Dragos , Niculescu, "Services for Dense Networks", editura VDM Verlag, ISBN-13: 978-363920439, martie 2010
- Dragos , Niculescu si Badri Nath, "Routing on a Curve", capitol in "Wireless Sensor Networks", editat de Znati, Sivalingam, Raghavendra, editura Kluwer Academic Publishers, 2004, pp 129-151 ISBN: 1-4020-7883-8

Projects

Year	Acronym	Role	Title	Program
2009-2011	RP4-2008	director	Algorithmic Methods for Interference Mitigation in 802.11 Networks	PN II
2008-2012	SMART-NET	consultant	SMART-antenna multimode wireless mesh Network	FP7
2010-2013	ALICANTE	consultant	Media Ecosystem Deployment Through Ubiquitous Content-Aware Network Environments	FP7
2011-2014	TRILOGY2	consultant	Building the Liquid Net	FP7
2012-2015	MOBIL4	consultant	ENABLING MOBILITY WITH MULTIPATH TCP	PNII
2015-2017	SUPER - FLUIDITY	consultant	Superfluidity: a super-fluid, cloud-native, converged edge system	H2020
2017-2018	4.5G	director	4.5G service based on MPTCP	PN III

Patents

- USPTO Application#: 2007/0201,440 Improved voice-over-internet-protocol method
- USPTO Application#: 2008/0239,980 Linear time interference map for 802.11 networks
- USPTO Application#: 2009/0096,686 Autonomous Mobile Wireless Antenna Systems
- USPTO Application#: 2009/0141,631 Voice Adaptive Gateway Pacing Methods and Systems for Wireless Multi-Hop Networks
- USPTO Application# 2010/0158,919 System and Method for Utilizing Spectrum Operation Modes in Dynamic Spectrum Access Systems
- OSIM “Metodă și sistem pentru utilizarea partajată a conexiunilor de date radio într-un sistem celular”, 2014