

Publikationen

- : Extracting Keywords from Publication Abstracts for an Automated Researcher Recommendation System. In: Digitale Welt, vol. 4, no. 1, pp. 20-25. DOI: 10.1007/s42354-019-0227-2.
- : On the analogy between quantum circuit design automation and virtual network embedding. In: Proceedings of 34th ACM/SIGAPP Symposium on Applied Computing (SAC'19) [April 8-12, 2019; Limassol, Cyprus], New York, NY, USA. DOI: 10.1145/3297280.3297419.
- : On the Construction of Optimal Embedding Problems for Delay-Sensitive Service Function Chains. [Accepted for publication]. In: Proceedings of the 28th International Conference on Computer Communications and Networks (ICCCN 2019) [July 29-August 1, 2019; Valencia, Spain].
- : Modeling Security Requirements for VNE Algorithms: A Practical Approach. In: Systems Modeling: Methodologies and Tools, Cham.
- : CloudIDEA: Cloud Intrusion Detection, Evidence Preservation and Analysis. In: Proceedings of the Tenth European Conference on Computer Systems (EuroSys 2015) [Bordeaux, France; April 21-24, 2015].
- : Managability of Future Internet Networks from a Practical Viewpoint. In: Towards the Future Internet - Emerging Trends from European Research. DOI: 10.3233/978-1-60750-539-6-105.
- : Platforms and Software Systems for an Autonomic Internet. In: Proceedings of the IEEE Global Communications Conference (IEEE GLOBECOM 2010) [Miami, FL, USA; December 6-10, 2010]. DOI: 10.1109/GLOCOM.2010.5683380.
- : ASPECTS: Agile Spectrum Security. In: Proceedings of the 7th Euro-NF Conference on Next-Generation Internet (NGI 2011) [Kaiserslautern; June 27-29, 2011]. DOI: 10.1109/NGI.2011.5985872.
- : QoS-Aware Secure Live Migration of Virtual Machines. In: Proceedings of the 2nd Workshop on Security in Highly Connected IT Systems (SHCIS 2015).
- : Constraint-Based Virtualization of Industrial Networks. In: Principles of Performance and Reliability Modeling and Evaluation: Essays in Honor of Kishor Trivedi on his 70th Birthday, Cham. DOI: 10.1007/978-3-319-30599-8_22.
- : Towards In-Network Clouds in Future Internet. In: The Future Internet. DOI: 10.1007/978-3-642-20898-0_2.
- : Modeling Security Requirements for VNE algorithms. In: Proceedings of VALUETOOLS 2016/10th EAI International Conference on Performance Evaluation Methodologies and Tools (Taormina, Italy; October 25-28, 2016).
- : CloudIDEA: A Malware Defense Architecture for Cloud Data Centers. In: Proceedings of the 5th International Symposium on Cloud Computing, Trusted Computing and Secure Virtual Infrastructures (C&TC 2015) [Rhodes, Greece; October 26-28, 2015].
- : Wide-Area Virtual Machine Migration as Resilience Mechanism. In: Proceedings of the 1st International Workshop on Network Resilience: From Research to Practice (WNR 2011) [Madrid, Spain; October 4, 2011]. DOI: 10.1109/SRDSW.2011.16.
- : An Approach to Energy-efficient Virtual Network Embeddings. In: 2013 IFIP/IEEE International Symposium on Integrated Network Management (IM 2013) [Ghent, Belgium; May 27-31, 2013].
- : Generating Random Service Function Chain Embedding Problems. In: IEEE Conference on Network Function Virtualization and Software Defined Networks (NFV-SDN'17) [Berlin; November 6-8, 2017]. DOI: 10.1109/NFV-SDN.2017.8169834.

: VNREAL: Virtual Network Resource Embedding Algorithms in the Framework ALEVIN. In: Proceedings of the 7th Euro-NF Conference on Next-Generation Internet (NGI 2011) [Kaiserslautern; June 27-29, 2011]. DOI: 10.1109/NGI.2011.5985874.

: Towards a Policy-Based Autonomic Virtual Network to Support Differentiated Security Services. In: Proceedings of the International Conference on Telecommunications and Multimedia (TEMU 2008) [July 16-18, 2008; Ierapetra, Crete, Greece].

: Green Wired Networks. In: Large-Scale Distributed Systems and Energy Efficiency: A Holistic View.

: Flexible VNE Algorithms Analysis using ALEVIN. In: Proceedings of the 11th Würzburg Workshop on IP: Joint ITG and Euro-NF Workshop "Visions of Future Generation Networks" (EuroView2011).

: A distributed, parallel, and generic virtual network embedding framework. In: IEEE International Conference on Communications (ICC 2013) [Budapest, Hungary; June 9-13, 2013]. DOI: 10.1109/ICC.2013.6655087.

: A Simulation Framework for Virtual Network Embedding Algorithms. In: Proceedings of the 16th International Telecommunications Network Strategy and Planning Symposium (Networks 2014) [Funchal, Madeira Island, Portugal; September 17-19, 2014]. DOI: 10.1109/NETWKS.2014.6959238.

: Distributed Virtual Network Embedding. In: Proceedings of the 7th GI/ITG KuVS Workshop on Future Internet.

: Scalable Service Deployment on Software Defined Networks. In: IEEE Communications Magazine, vol. 49, no. 12, pp. 84-93. DOI: 10.1109/MCOM.2011.6094010.

: vCPI – virtual Component Programming Interface. In: Praxis der Informationsverarbeitung und Kommunikation, vol. 34, no. 3, pp. 142-143. DOI: 10.1515/piko.2011.028.

: Security and Privacy issues for the Network of the Future. In: Security and Communication Networks, vol. 5, no. 9, pp. 987-1005. DOI: 10.1002/sec.384.

: Network Virtualization and Energy Efficiency. In: 9th Würzburg Workshop on IP: Joint ITG and Euro-NF Workshop on Visions of Future Generations Networks (EuroView 2009), Würzburg, Germany.

: Device and method for allocating communication resources in a system employing network slicing.

: Position Paper: Secure Virtual Network Embedding. In: Praxis der Informationsverarbeitung und Kommunikation, vol. 34, no. 4, pp. 190-193. DOI: 10.1515/piko.2011.040.

: Generating Virtual Network Embedding Problems with Guaranteed Solutions. In: IEEE Transactions on Network and Service Management, vol. 13, no. 3, pp. 1-14. DOI: 10.1109/TNSM.2016.2596802.

: ALEVIN - A Framework to Develop, Compare, and Analyze Virtual Network Embedding Algorithms. In: Electronic Communications of the EASST, vol. 37, pp. 1-12.

: Virtual Network Embedding: A Survey. In: IEEE Communications Surveys and Tutorials, vol. 15, no. 4, pp. 1888-1906. DOI: 10.1109/SURV.2013.013013.00155.

: Performance Evaluation for Service Function Chains through Automated Model Building. In: Proceedings of the 11th EAI International Conference on Performance Evaluation Methodologies and Tools (ValueTools2017) [Venice, Italy; December 5-7, 2017].

: An Evaluation Methodology for Virtual Network Embedding.

: Optimal mapping of virtual networks with hidden hops. In: Telecommunications Systems: Special Issue on Future Internet Services and Architectures (Trends and Visions), vol. 51, no. 4, pp. 273-282. DOI: 10.1007/s11235-011-9437-0.

: Energy Efficient Virtual Network Embedding. In: IEEE Communications Letters, vol. 16, no. 5, pp. 756-759. DOI: 10.1109/LCOMM.2012.030912.120082.

: Virtualisierung im Future Internet - Virtualisierungsmethoden und Anwendungen. In: Informatik-Spektrum, vol. 33, no. 2, pp. 186-194. DOI: 10.1007/s00287-010-0420-z.



- : Distributed and scalable embedding of virtual networks. In: Journal of Network and Computer Applications, vol. 56, no. October, pp. 124-136. DOI: 10.1016/j.jnca.2015.06.012.
- : Management of Virtual Networks. In: Middleware technologies for enabling next generation network services and applications (Samos Island, Greece, 22nd - 26th September 2008; Proceedings of the 5th International Workshop on Next Generation Networking Middleware (NGNM 2008) and 4th IEEE/IFIP International Workshop on End-to-end Virtualization and Grid Management (EVGM 2008)), Schöneiche bei Berlin, vol. No. 9.
- : Virtual Network Management with XEN. In: Tagungsband Herbsttreffen 2008 der GI/VTG Fachgruppe Betriebssysteme und KuVS(Okttober 2008; Garching).
- : Virtualized Networks based on System Virtualization. In: Proceedings of the 2nd GI/ITG KuVS Workshop on The Future Internet (November 2008; Karlsruhe).
- : A Viewpoint of the Network Management Paradigm for Future Internet Networks. In: Proceedings of the 1st IFIP /IEEE International Workshop on Management of the Future Internet (ManFI 2009).
- : VDE-Positionspapier Energieinformationsnetze und -systeme (Smart Grid Security). In: VDE-Kongress 2014 Smart Cities (Intelligente Lösungen für das Leben in der Zukunft, Kongressbeiträge 20./21.10.2014, Frankfurt/Main, Messe), Berlin.
- : Management Architecture and Systems for Future Internet Networks. In: Towards the Future Internet, Washington, DC.
- : Using System Virtualization to Create Virtualized Networks. In: Electronic Communications of the EASST (Workshops der Wissenschaftlichen Konferenz Kommunikation in Verteilten Systemen (WowKiVS2009), vol. 17, pp. 1-12.
- : Virtual Energy Information Network: A Resilience Perspective. In: e&i Elektrotechnik & Informationstechnik (Special Issue on 'Smart Grid and Security'), vol. 130, no. 4-5, pp. 121-126.