

## ANEXA 1 - Fișă de evaluare generală a standardelor universității

(se menționează exclusiv descriptorii care au punctaj)

### I. Activitatea de cercetare (70%)

1. Articole științifice publicate *in extenso* în reviste cotate Web of Science cu factor de impact

Punctaj:  $(60 \text{ puncte} \times \text{factor de impact} + 25) / \text{număr autori}$

Articol	Autori	FI	Punctaj
„Efficient and Confidentiality-Preserving Content-Based Publish/Subscribe with Prefiltering” (R. Barazzutti, E. Onica, P. Felber, H. Mercier, E. Rivière), IEEE Transactions on Dependable and Secure Computing, Vol. 14, Issue 3, 2017	5	4,410	57,92
"Confidentiality-Preserving Publish/Subscribe: A Survey" (E. Onica, P. Felber, H. Mercier, E. Rivière), ACM Computing Surveys (CSUR), Vol. 49, Issue 2, 2016	4	6,748	107,47
<b>Total</b>			<b>165,39</b>

4. Articole științifice publicate *in extenso* în volumele conferințelor

Punctaj:

- indexate ISI – 30 puncte/număr autori
- indexate BDI – 15 puncte/număr autori
- alte categorii – 5 puncte/număr autori

Articol	Autori	Indexare	Punctaj
“Supply chain malware targets SGX: Take care of what you sign” (A. Mogage, R. Pires, V. Crăciun, E. Onica, P. Felber), SRDS 2019, 38th IEEE International Symposium on Reliable Distributed Systems, Lyon, France, 2019	5	Alte categorii	1
"From Confidential kNN Queries to Confidential Content Based Publish/Subscribe” (E. Onica, H. Mercier, E. Rivière), Proceedings of the 14th International Conference on Software Technologies, ICSOFT 2019	3	Alte categorii	1,66
"Towards Integrated Failure Recovery for Web Service Composition” (P. Diac, E. Onica), Proceedings of the 14th International Conference on Software Technologies, ICSOFT 2019	2	Alte categorii	2,5
"Trust and Privacy in Development of Publish/Subscribe Systems" (E. Onica, H. Mercier, E. Rivière), Proceedings of the 28th International Conference on Information Systems Development, ISD 2019	3	Alte categorii	1,66

"Reliable Messaging to Millions of Users with MigratoryData" (M. Rotaru, F. Olariu, E. Onica, E. Rivière), Proceedings of the 18th Annual ACM/IFIP/USENIX Middleware Conference, Middleware 2017	4	BDI	3,75
"A Lightweight MapReduce Framework for Secure Processing with SGX" (R. Pires, D. Gavril, P. Felber, E. Onica, M. Pasin), Proceedings of the 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, CCGRID 2017	5	ISI	3
"Efficient Key Updates through Subscription Re-encryption for Privacy-Preserving Publish/Subscribe" (E. Onica, P. Felber, H. Mercier, E. Rivière), Proceedings of the 16th Annual ACM/IFIP/USENIX Middleware Conference, Middleware 2015	4	ISI	7,5
"Elastic Scaling of a High-Throughput Content-Based Publish/Subscribe Engine" (R. Barazzutti, T. Heinze, A. Martin, E. Onica, P. Felber, C. Fetzer, Z. Jerzak, M. Pasin, E. Rivière), Proceedings of the 34th IEEE International Conference on Distributed Computing Systems, ICDCS 2014	9	ISI	3,33
"Performance/Security Tradeoffs for Content-Based Routing Supported by Bloom Filters" (H. Mercier, E. Onica, E. Rivière, P. Felber), Proceedings of the 20th International Colloquium on Structural Information and Communication Complexity, SIROCCO 2013	4	BDI	3,75
"StreamHub: a Massively Parallel Architecture for High-Performance Content-Based Publish/Subscribe" (R. Barazzutti, P. Felber, C. Fetzer, E. Onica, J.F. Pineau, M. Pasin, E. Rivière, S. Weigert), Proceedings of the 7th ACM International Conference on Distributed Event-Based Systems, DEBS 2013	8	BDI	1,87
"Thrifty Privacy: Efficient Support for Privacy-Preserving Publish/Subscribe" (R. Barazzutti, P. Felber, H. Mercier, E. Onica, E. Rivière), Proceedings of the 6th ACM International Conference on Distributed Event-Based Systems, DEBS 2012	5	BDI	3
"Infrastructure Provisioning for Scalable Content-Based Routing: Framework and Analysis" (R. Barazzutti, P. Felber, H. Mercier, E. Onica, J.F. Pineau, E. Rivière, C. Fetzer), Proceedings of the 11th Annual IEEE International Symposium on Network Computing and Applications, NCA 2012	7	ISI	4,28
"Enhancing Yahoo! Search Results using Linked Open Data" (C. Amariei, E. Onica, S. Buraga), Proceedings of the Knowledge Engineering: Principles and Techniques Conference 2nd Edition, KEPT 2009	3	Alte categorii	1,66
<b>Total</b>			<b>38,96</b>

## 9. Contracte de cercetare științifică în instituții academice

Punctaj:

- contracte internaționale – director: 100 puncte pentru fiecare 100.000 Euro
- contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro/nr. membri
- contracte naționale – director: 50 puncte pentru fiecare 500.000 lei
- contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei/nr. membri

Contract	Valoare	Funcție	Nr. membri	Punctaj
SRT-15, Grant FP7-ICT-257843, internațional	541.970 Euro	Membru permanent	5	108,39
LEADS, Grant FP7-ICT-318809, internațional	749.789 Euro	Membru colaborator	6	124,96
EBSIS, Grant H2020-Twinning-692178, internațional	334.875 Euro	Director		334,87
EBSIS, Premiere H2020, Grant PN3 10/2016, național	151.123 lei	Director		15,11
<b>Total</b>				<b>583,33</b>

## 12. Citări și recenzii ale lucrărilor științifice

- reviste de specialitate din străinătate – (10 puncte + 20 x factor de impact)/nr. autori per citare
- reviste de specialitate din țară – (5 puncte + 10 x factor de impact)/nr. autori per citare
- monografii academice din străinătate – 50 puncte/nr. autori per citare
- monografii academice din țară – 25 puncte/nr. autori per citare

Notă: Pentru citările din conferințe în lipsa altui descriptor dedicat, a fost folosit descriptorul reviste fără a se adăuga factorul de impact. Tezele doctorale nu au fost considerate monografii.

Sursa folosită pentru cuantificarea numărului de citări a fost Google Scholar.

Nu au fost cuantificate autocitările (având autor unul din autorii articolului citat).

Titlu articol citat	Autori	Punctaj
<i>“StreamHub: a Massively Parallel Architecture for High-Performance Content-Based Publish/Subscribe” (R. Barazzutti, P. Felber, C. Fetzer, E. Onica, J.F. Pineau, M. Pasin, E. Rivière, S. Weigert), Proceedings of the 7th ACM International Conference on Distributed Event-Based Systems, DEBS 2013</i>	8	<b>93,25</b>
<b>Citări</b>	<b>FI</b>	
<i>Using Machine Learning to Provide Reliable Differentiated Services for IoT in SDN-Like Publish/Subscribe Middleware (Y. Shi, Y. Zhang, H.-A. Jacobsen, L. Tang, G. Elliott, G. Zhang, X. Chen, J. Chen), Sensors, Volume 19, Issue 6, 2019</i>	3,031	8,82
<i>A distributed approach to compliance monitoring of business process event streams (D. Loreti, F. Chesani, A. Ciampolini, P. Mello), Future Generation Computer Systems, Volume 82, 2018</i>	5,768	15,67

<i>Multi-GPU Approach for Development of Parallel and Scalable Pub-Sub System</i> (M.A. Shah, D. Kulkarni), Proceedings of the 3rd International Conference on Computing, Communication and Signal Processing Computing, Communication and Signal Processing, ICCASP 2018	0	1,25
<i>Expressive Content-Based Routing in Software-Defined Networks</i> (S. Bhowmik, M. A. Tariq, J. Grunert, D. Srinivasan, K. Rothermel), IEEE Transactions on Parallel and Distributed Systems, Volume 29, Issue 11, 2018	3,402	9,75
<i>High Performance Publish/Subscribe Middleware in Software-Defined Networks</i> (S. Bhowmik, M. A. Tariq, B. Koldehofe, F. Durr, T. Kohler, K. Rothermel), IEEE/ACM Transactions on Networking (TON), Volume 25, Issue 3, 2017	3,110	9,02
<i>A Multiscale Approach for a Distributed Event-Based Internet of Things</i> (D. Conan, L. Lim, C. Taconet, S. Chabridon, C. Lecocq), Proceedings of 15th International Conference on Pervasive Intelligence and Computing, PICOM 2017	0	1,25
<i>Enabling Large-Scale IoT-Based Services through Elastic Publish/Subscribe</i> (S. Vavassori, J. Soriano, R. Fernández), Sensors, Volume 17, Issue 9, 2017	2,475	7,43
<i>Design of a Location-Based Publish/Subscribe Service Using a Graph-Based Computing Model</i> (A. Tripathi, H. Hoang), Proceedings of 3rd IEEE International Conference on Collaboration and Internet Computing, CIC 2017	0	1,25
<i>Brokel: Towards enabling multi-level cloud elasticity on publish/subscribe brokers</i> (V. F. Rodrigues, I. G. Wendt, R. da Rosa Righi, C. A. da Costa, J. L. V. Barbosa, A. M. Alberti), International Journal of Distributed Sensor Networks, Volume 13, Issue 8, 2017	1,787	5,71
<i>CEPSim: Modelling and simulation of Complex Event Processing systems in cloud environments</i> (W. A. Higashino, M. A. M. Capretz, L. F. Bittencourt) Future Generation Computer Systems, Volume 65, 2016	3,997	11,24
<i>Hybrid Content-Based Routing Using Network and Application Layer Filtering</i> (S. Bhowmik, M. A. Tariq, L. Hegazy, K. Rothermel), Proceedings of the 36th IEEE International Conference on Distributed Computing Systems, ICDCS 2016	0	1,25
<i>Interconnecting Online Shopping Services with Social Funding Projects</i> (S. S. Kim, Y. H. Cho, H. G. Kim), Information, Volume 19, Issue 1, 2016	0	1,25
<i>Design and development of high performance, scalable content based publish subscribe system</i> (M. A. Shah, D. B. Kulkarni), Proceedings of the 10th ACM International Conference on Distributed and Event-based Systems, DEBS 2016	0	1,25
<i>A Framework for Multiscale-, QoC- and Privacy-aware Context Dissemination in the Internet of Things</i> (S. Chabridon, D. Conan, T. Desprats, M. Mbarki, C. Taconet, L. Lim, P. Marie, S. Rottenberg), Proceedings of the 11th International Conference on Collaborative Computing: Networking, Applications and Worksharing, CollaborateCom 2015	0	1,25

<i>Distributed control plane for software-defined networks: a case study using event-based middleware</i> (S. Bhowmik, M. A. Tariq, B. Koldehofe, A. Kutzleb, K. Rothermel), Proceedings of the 9th ACM International Conference on Distributed Event-Based Systems, DEBS 2015	0	1,25
<i>Towards Efficient Dissemination and Filtering of XML Data Streams</i> (K. Belyaev, I. Ray), Proceedings of the 13th IEEE International Conference on Dependable, Autonomic and Secure Computing, DASC 2015	0	1,25
<i>Storm Pub-Sub: High Performance, Scalable Content Based Event Matching System Using Storm</i> (M. A. Shah, D. B. Kulkarni), Proceedings of the IEEE International Parallel and Distributed Processing Symposium Workshop, IPDPSW within IPDPS 2015	0	1,25
<i>COSS: Content-Based Subscription as an IoT Service</i> (Y. Chen, J. Wang, H. Wang, S. Huang, C. Lin), Proceedings of the IEEE International Conference on Web Services, ICWS 2015	0	1,25
<i>S<sup>3</sup>-TM: scalable streaming short text matching</i> (F. Basık, B. Gedik, H. Ferhatosmanoğlu, M. E. Kalender), The VLDB Journal, Volume 24, Issue 6, 2015	1,744	5,61
<i>Supporting Donation of Shopping Rewards to Social Funding Projects</i> (S. S. Kim, H. G. Kim), Proceedings of the International Conference of Future Information and Communication Engineering, 2015	0	1,25
<i>Cost-Effective Resource Allocation for Deploying Pub/Sub on Cloud</i> (V. Setty, R. Vitenberg, G. Kreitz, G. Urdaneta, M. van Steen), Proceedings of the 34th IEEE International Conference on Distributed Computing Systems, ICDCS 2014	0	1,25
<i>Distributed event-based system with multiscoping for multiscalability</i> (L. Lim, D. Conan) Proceedings of the 9th Workshop on Middleware for Next Generation Internet Computing within Middleware 2014	0	1,25
<i>Asset management strategy as Denver international airport approaches twenty-years-old</i> (S. Grace), Proceedings of the Asset Management Conference, 2014	0	1,25
<i>Event matching based on subscriber category in sensor cloud</i> (S.S. Grace, M.R. Sumalatha), Proceedings of the International Conference on Recent Trends in Information Technology, ICRTIT 2014	0	1,25

<b>Titlu articol citat</b>	<b>Autori</b>	<b>Punctaj</b>
<i>"Infrastructure Provisioning for Scalable Content-Based Routing: Framework and Analysis"</i> (R. Barazzutti, P. Felber, H. Mercier, E. Onica, J.F. Pineau, E. Rivière, C. Fetzer), Proceedings of the 11th Annual IEEE International Symposium on Network Computing and Applications, NCA 2012	7	<b>2,84</b>
<b>Citări</b>	<b>FI</b>	
<i>Multi-path Routing Policy for Distributed Caching System</i> (L. Yang), The Open Automation and Control Systems Journal, Volume 8, 2016	0	1,42
<i>Distributed event-based system with multiscoping for multiscalability</i> (L. Lim, D. Conan) Proceedings of the 9th Workshop on Middleware for Next Generation Internet Computing within Middleware 2014	0	1,42

<b>Titlu articol citat</b>	<b>Autori</b>	<b>Punctaj</b>
<i>"Thrifty Privacy: Efficient Support for Privacy-Preserving Publish/Subscribe" (R. Barazzutti, P. Felber, H. Mercier, E. Onica, E. Rivière), Proceedings of the 6th ACM International Conference on Distributed Event-Based Systems, DEBS 2012</i>	5	102,15
<b>Citări</b>	<b>FI</b>	
<i>Secure search service based on word2vec in the public cloud (Y. Liu, Z. Fu), International Journal of Computational Science and Engineering, Volume 18, Issue 3, 2019</i>	0	2
<i>PICADOR: End-to-end encrypted Publish–Subscribe information distribution with proxy re-encryption (C. Borcea, A. D. Gupta, Y. Polyakov, K. Rohloff, G. Ryan), Future Generation Computer Systems, Volume 71, 2017</i>	4,639	20,55
<i>Enhancing context data distribution for the internet of things using qoc-awareness and attribute-based access control (L. Lim, P. Marie, D. Conan, S. Chabridon, T. Desprats, A. Manzoor), Annals of Telecommunications, Volume 71, Issue 3-4, 2016</i>	1,412	7,64
<i>A survey of security solutions for distributed publish/subscribe systems (A. V. Uzunov), Computers &amp; Security, Volume 61, 2016</i>	2,849	13,39
<i>AnonPubSub: Anonymous publish-subscribe overlays (J. Daubert, M. Fischer, T. Grube, S. Schiffner, P. Kikiras, M. Mühlhäuser), Computer Communications, Volume 76, 2016</i>	3,338	15,35
<i>A Framework for Multiscale-, QoC- and Privacy-aware Context Dissemination in the Internet of Things (S. Chabridon, D. Conan, T. Desprats, M. Mbarki, C. Taconet, L. Lim, P. Marie, S. Rottenberg), Proceedings of 11th International Conference on Collaborative Computing: Networking, Applications and Worksharing, CollaborateCom 2015</i>	0	2
<i>Controlled privacy in mobile cloud (D. Jana, D. Bandyopadhyay), Proceedings of the 2nd IEEE International Conference on Recent Trends in Information Systems (ReTIS), 2015</i>	0	2
<i>Efficient management of privacy issues in mobile cloud environment (D. Jana, D. Bandyopadhyay), Proceedings of the IEEE International Advanced Computing Conference, 2015</i>	0	2
<i>Quality of Service in Wide Scale Publish—Subscribe Systems (P. Bellavista, A. Corradi, A. Reale), IEEE Communications Surveys &amp; Tutorials, Volume 16, Issue 3, 2014</i>	6,806	29,22
<i>Management of security and privacy issues of application development in mobile cloud environment: A survey (D. Jana, D. Bandyopadhyay), Proceedings of the Recent Advances and Innovations in Engineering Conference, ICRAIE 2014</i>	0	2
<i>Efficient Private Publish-Subscribe Systems (J. Khoury, G. Lauer, P. Pal, B. Thapa, J. Loyall), Proceedings of the 17th IEEE International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing, ISORC 2014</i>	0	2
<i>Distributed and Anonymous Publish-Subscribe (J. Daubert, M. Fischer, S. Schiffner, M. Mühlhäuser), Proceedings of the 7th International Conference on Network and System Security, NSS 2013</i>	0	2

<i>Efficient management of security and privacy issues in mobile cloud environment</i> (D. Jana, D. Bandyopadhyay), Proceedings of the Annual IEEE India Conference, INDICON 2013	0	2
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<i>"Confidentiality-Preserving Publish/Subscribe: A Survey"</i> (E. Onica, P. Felber, H. Mercier, E. Rivière), <i>ACM Computing Surveys (CSUR)</i> , Vol. 49, Issue 2, 2016	4	<b>261,15</b>
<b>Citări</b>	<b>FI</b>	
<i>Trust Management in Fog Computing: A Survey</i> (S.S. Manvi, N. C. Gowda), chapter in <i>Applying Integration Techniques and Methods in Distributed Systems and Technologies</i> (ed. G. Kecskemeti), IGI Global, ISBN 978-1-522-58295-3	Mon. Int.	12,5
<i>Secure Publisher Content Sharing Model for Cyber Physical System with Blockchain Based Cloud Storage</i> (K. Manohar, C. N. Sowmyarani), <i>International Journal of Advance Research and Innovative Ideas in Education</i> , Volume 5, Issue 3, 2019	0	2,5
<i>Adaptive Security for Self-Protection of Mobile Computing Devices</i> (A. Ahmad, A. W. Malik, A. Alreshidi, W. Khan, M. Sajjad), <i>Mobile Networks and Applications</i> , Volume 24, 2019	2,390	14,45
<i>A Comprehensive Security Framework for Publish/Subscribe-Based IoT Services Communication</i> (L. Duan, C.-A. Sun, Y. Zhang, W. Ni, J. Chen), <i>IEEE Access</i> , Volume 7, 2019	4,098	22,99
<i>Collusion Defender: Preserving Subscribers' Privacy in Publish and Subscribe Systems</i> (S. Cui, S. Belguith, P. De Alwis, M. R. Asghar, G. Russello), <i>IEEE Transactions on Dependable and Secure Computing</i> , Early Access, 2019	6,404	34,52
<i>Fog-based Secure Communications for Low-power IoT Devices</i> (L. Ferretti, M. Marchetti, M. Colajanni), <i>ACM Transactions on Internet Technology (TOIT)</i> , Volume 19, Issue 2, 2019	2,382	14,41
<i>Security and trust issues in Fog computing: A survey</i> (P.Y. Zhang, M.C. Zhou, G. Fortino), <i>Future Generation Computer Systems</i> , Volume 88, 2018	5,768	31,34
<i>An Android-Based Solution for Solar Power Harvesting and Irrigation Using IoT</i> (S. Kumari, V. Modani, S. Oswal, S. S. Sarma, P. Kulkarni), <i>Proceedings of the International Conference on Intelligent Data Communication Technologies and Internet of Things, ICICI 2018</i>	0	2,5
<i>Malicious Entities are in Vain: Preserving Privacy in Publish and Subscribe Systems</i> (S. Cui, S. Belguith, P. D. Alwis, M. R. Asghar, G. Russello), <i>Proceedings of the 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications, TrustCom 2018</i>	0	2,5
<i>Distributed Group Key Management for Event Notification Confidentiality among Sensors</i> (C. Esposito, M. Ficco, A. Castiglione, F. Palmieri, A. De Santis), <i>IEEE Transactions on Dependable and Secure Computing</i> , Early Access, 2018	6,404	34,52
<i>Secure publish and subscribe systems with efficient revocation</i> (S. Belguith, S. Cui, M. R. Asghar, G. Russello), <i>Proceedings of the 33rd Annual ACM Symposium on Applied Computing, SAC 2018</i>	0	2,5

<i>Secret Sharing in Pub/Sub Using Trusted Execution Environments</i> (J. Munster, H.-A. Jacobsen), Proceedings of the 12th ACM International Conference on Distributed and Event-based Systems, DEBS 2018	0	2,5
<i>Design and Implementation of a Hardware Versatile Publish-Subscribe Architecture for the Internet of Things</i> (F.T. El-Hassan, D. Ionescu), IEEE Access, Volume 6, 2018	4,098	22,99
<i>Mechanism Transitions in Publish/Subscribe Systems</i> (B. Richerzhagen), Springer International Publishing, ISBN 978-3-319-92570-7	Mon. Int.	12,5
<i>A Secure Privacy-Preserving Mutual Authentication Scheme for Publish-Subscribe Fog Computing</i> (F. M. Salem), Proceedings of the 14th International Computer Engineering Conference, ICENCO 2018	0	2,5
<i>Towards End-to-end Privacy for Publish/Subscribe Architectures in the Internet of Things</i> (S. Coroller, S. Chabridon, M. Laurent, D. Conan, J. Leneutre), Proceedings of the 5th Workshop on Middleware and Applications for the Internet of Things within Middleware 2018	0	2,5
<i>EMA-LAB: Efficient Multi Authorisation Level Attribute Based Access Control</i> (N. Kaaniche, S. Belguith, G. Russello), Proceedings of the International Conference on Network and System Security, NSS 2018	0	2,5
<i>University Notification Subscription System using Amazon Web Service</i> (B. H. Malik, Z. M. Dar, S. M. Kayani, M. Dar, M. H. Shafiq, I. Kabir, F. Masood, H. Zakriya, A. Ali), International Journal of Advanced Computer Science and Applications, Volume 9, Issue 5, 2018	0	2,5
<i>Building Energy Modelling and Monitoring by Integration of IoT Devices and Building Information Models</i> (L. Bottaccioli, A. Aliberti, F. Ugliotti, E. Patti, A. Osello, E. Macii, A. Acquaviva), Proceedings of the 41st IEEE Annual Computer Software and Applications Conference, COMPSAC 2017	0	2,5
<i>PCP: A Privacy-Preserving Content-Based Publish-Subscribe Scheme With Differential Privacy in Fog Computing</i> (Q. Wang, D. Chen, N. Zhang, Z. Ding, Z. Qin), IEEE Access, Volume 5, 2017	3,557	20,28
<i>MESA: An Efficient Matching Scheme in Content-Based Publish/Subscribe System with Simplified Bayesian Approach</i> (Q. Wang, D. Chen, Z. Ding, Z. Qin, Z. Qin), Proceedings of the 3rd International Conference on Big Data Computing and Communications, BIGCOM 2017	0	2,5
<i>PACS: An Efficient Publish-Subscribe System with Secure Attribute-Based Access Control Scheme in IoT Context</i> (Q. Wang, D. Chen, Z. Ding, Z. Qin, Z. Qin), Journal of Electronic Science and Technology, Online First, 2017	0	2,5
<i>Seamless Transitions between Filter Schemes for Location-Based Mobile Applications</i> (B. Richerzhagen, N. Richerzhagen, J. Zobel, S. Schönherr, B. Koldehofe, R. Steinmetz), IEEE 41st Conference on Local Computer Networks, LCN 2016	0	2,5
<i>Realizing IoT service's policy privacy over publish/subscribe-based middleware</i> (Y. Zhang, S. Chen, S. Wang, B. Cheng, J. Chen), SpringerPlus, Volume 5, 2016	1,130	8,15



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"Reliable Messaging to Millions of Users with MigratoryData" (M. Rotaru, F. Olariu, E. Onica, E. Rivière), Proceedings of the 18th Annual ACM/IFIP/USENIX Middleware Conference, Middleware 2017	4	2,5
<b>Citări</b>	<b>FI</b>	
PreDict: Predictive Dictionary Maintenance for Message Compression in Publish/Subscribe (C. Doblander, A. Khatayee, H.-A. Jacobsen), Proceedings of the 19th ACM/IFIP/USENIX International Middleware Conference, Middleware 2018	0	2,5

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"Elastic Scaling of a High-Throughput Content-Based Publish/Subscribe Engine" (R. Barazzutti, T. Heinze, A. Martin, E. Onica, P. Felber, C. Fetzer, Z. Jerzak, M. Pasin, E. Rivière), Proceedings of the 34th International Conference on Distributed Computing Systems, ICDCS 2014	9	38,61
<b>Citări</b>	<b>FI</b>	
Adjusting Matching Algorithm to Adapt to Workload Fluctuations in Content-based Publish/Subscribe Systems (S. Qian, W. Mao, J. Cao, F. Le Mouël, M. Li), Proceedings of IEEE Conference on Computer Communications, INFOCOM 2019	0	1,11
QoS-Aware Resource Allocation for Mobile IoT Pub/Sub Systems (R. Gomes, G. Bouloukakis, F. Costa, N. Georgantas, R. da Rocha), Proceedings of International Conference on Internet of Things, ICIOT 2018	0	1,11
Scalable Edge Computing for Low Latency Data Dissemination in Topic-Based Publish/Subscribe (S. Khare, H. Sun, K. Zhang, J. Gascon-Samson, A. Gokhale, X. Koutsoukos, H. Abdelaziz), Proceedings of the IEEE/ACM Symposium on Edge Computing, SEC 2018	0	1,11
An Innovative Approach to Improve Elasticity and Performance of Message Brokers for Green Smart Cities (V. Rampérez, J. Soriano, D. Lizcano, J. A. Lara), Proceedings of the 4th International Conference on Engineering & MIS, ICEMIS 2018	0	1,11
High Performance Publish/Subscribe Middleware in Software-Defined Networks (S. Bhowmik, M. A. Tariq, B. Koldehofe, F. Durr, T. Kohler, K. Rothermel), IEEE/ACM Transactions on Networking (TON), Volume 25, Issue 3, 2017	3,110	8,02
Distributed Publish/Subscribe Query Processing on the Spatio-Textual Data Stream (Z. Chen, G. Cong, Z. Zhang, T.Z.J. Fuz, L. Chen), Proceedings of the 33rd IEEE International Conference on Data Engineering, ICDE 2017	0	1,11
Efficient covering for top-k filtering in content-based publish/subscribe systems (K. Zhang, M. Sadoghi, V. Muthusamy, H.-A. Jacobsen), Proceedings of the 18th ACM/IFIP/USENIX Middleware Conference, Middleware 2017	0	1,11
MultiPub: Latency and Cost-Aware Global-Scale Cloud Publish/Subscribe (J. Gascon-Samson, J. Kienzle, B. Kemme), Proceedings of the 37th IEEE International Conference on Distributed Computing Systems, ICDCS 2017	0	1,11

<i>An Autonomous and Dynamic Coordination and Discovery Service for Wide-Area Peer-to-peer Publish/Subscribe</i> (K. An, S. Khare, A. Gokhale, A. Hakiri), Proceedings of the 11th ACM International Conference on Distributed and Event-based Systems, DEBS 2017	0	1,11
<i>Brokel: Towards enabling multi-level cloud elasticity on publish/subscribe brokers</i> (V. F. Rodrigues, I. G. Wendt, R. da Rosa Righi, C. A. da Costa, J. L. V. Barbosa, A. M. Alberti), International Journal of Distributed Sensor Networks, Volume 13, Issue 8, 2017	1,787	5,08
<i>Enabling Large-Scale IoT-Based Services through Elastic Publish/Subscribe</i> (S. Vavassori, J. Soriano, R. Fernández), Sensors, Volume 17, Issue 9, 2017	2,475	6,61
<i>Hybrid Content-Based Routing Using Network and Application Layer Filtering</i> (S. Bhowmik, M. A. Tariq, L. Hegazy, K. Rothermel) Proceedings of the 36th IEEE International Conference on Distributed Computing Systems, ICDCS 2016	0	1,11
<i>Towards a flexible data stream analytics platform based on the GCM autonomous software component technology</i> (F. Baude, L. El Beze, M. Oliva), Proceedings of the 14th International Conference on High Performance Computing & Simulation, HPCS 2016	0	1,11
<i>Dynamo: A Scalable Pub/Sub Middleware for Latency-Constrained Applications in the Cloud</i> (J. Gascon-Samson, F.-P. Garcia, B. Kemme, J. Kienzle), Proceedings of the 35th IEEE International Conference on Distributed Computing Systems, ICDCS 2015	0	1,11
<i>Distributed control plane for software-defined networks: a case study using event-based middleware</i> (S. Bhowmik, M. A. Tariq, B. Koldehofe, A. Kutzleb, K. Rothermel), Proceedings of the 9th ACM International Conference on Distributed Event-Based Systems, DEBS 2015	0	1,11
<i>A scalable and elastic cloud-assisted publish/subscribe model for IPTV video surveillance system</i> (M. M. Hassan, M. A. Hossain, M. Abdullah-Al-Wadud, T. Al-Mudaihesh, S. Alyahya, A. Alghamdi), Cluster Computing, Volume 18, Issue 4, 2015	1,514	4,47
<i>GraPS: A Graph Publish/Subscribe Middleware</i> (C. Canas, E. Pacheco, B. Kemme, J. Kienzle, H. A. Jacobsen), Proceedings of the 16th Annual Middleware Conference, Middleware 2015	0	1,11

<b>Titlu articol citat</b>	<b>Autori</b>	<b>Punctaj</b>
<i>"Optimized Stage Processing for Anomaly Detection on Numerical Data Streams: Grand Challenge"</i> (C. Amariei, P. Diac, E. Onica) – Proceedings of the 11th ACM International Conference on Distributed and Event-based Systems, DEBS 2017	3	<b>12,44</b>
<b>Citări</b>	<b>FI</b>	
<i>Dagstuhl Seminar on Big Stream Processing</i> (S. Sakr, T. Rabl, M. Hirzel, P. Carbone, M. Strohbach), SIGMOD Record, Volume 47, Issue 3, 2019	1,366	12,44

<b>Titlu articol citat</b>	<b>Autori</b>	<b>Punctaj</b>
<i>"A Lightweight MapReduce Framework for Secure Processing with SGX"</i> (R. Pires, D. Gavril, P. Felber, E. Onica, M. Pasin) - <i>Proceedings of the 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, CCGRID 2017</i>	5	27,89
<b>Citări</b>	<b>FI</b>	
<i>Personal database security and trusted execution environments: a tutorial at the crossroads</i> (N. Anciaux, L. Bouganim, P. Pucheral, I. S. Popa, G. Scerri), <i>VLDB Endowment</i> , Volume 12, Issue 12, 2019	1,973	9,89
<i>SecDATAVIEW: A Secure Big Data Workflow Management System for Heterogeneous Computing Environments</i> (S. Mofrad, I. Ahmed, S. Lu, P. Yang, H. Cui, F. Zhang), <i>Proceedings of the 35th Annual Computer Security Applications Conference, ACSAC 2019</i>	0	2
<i>Privacy-Preserving IoT Cloud Data Processing Using SGX</i> (P. Gremaud, A. Durand, J. Pasquier), <i>Proceedings of the 9th ACM International Conference on the Internet of Things, IoT 2019</i>	0	2
<i>A comparison study of intel SGX and AMD memory encryption technology</i> (S. Mofrad, F. Zhang, S. Lu, W. Shi), <i>Proceedings of the 7th International Workshop on Hardware and Architectural Support for Security and Privacy, HASP 2018 within ISCA 2018</i>	0	2
<i>Towards Secure Dynamic Product Lines in the Cloud</i> (S. Krieter, J. Krüger, N. Weichbrodt, V. A. Sartakov, R. Kapitza, T. Leich), <i>Proceedings of the 40th IEEE/ACM International Conference on Software Engineering, ICSE 2018</i>	0	2
<i>Achieving trustworthy Homomorphic Encryption by combining it with a Trusted Execution Environment</i> (N. Drucker, S. Gueron), <i>Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications</i> , Volume 9, Issue 1, 2018	0	2
<i>Giving Customers Control Over Their Data: Integrating a Policy Language into the Cloud</i> (J. Hiller, M. Kimmerlin, M. Plauth, S. Heikkilä, S. Klauck, V. Lindfors, F. Eberhardt, D. Bursztynowski, J. L. Santos, O. Hohlfeld, K. Wehrle), <i>Proceedings of the IEEE International Conference on Cloud Engineering, IC2E 2018</i>	0	2
<i>MaskAI: Privacy Preserving Masked Reads Alignment using Intel SGX</i> (C. Lambert, M. Fernandes, J. Decouchant, P. Esteves-Verissimo), <i>Proceedings of the 37th IEEE Symposium on Reliable Distributed Systems, SRDS 2018</i>	0	2
<i>Secure Distributed Computing on Untrusted Fog Infrastructures Using Trusted Linux Containers</i> (M.-M. Bazm, M. Lacoste, M. Südholt, J.-M. Menaud), <i>Proceedings of the 10th IEEE International Conference on Cloud Computing Technology and Science, CloudCom 2018</i>	0	2
<i>Privacy-Preserving Location-Based Services by using Intel SGX</i> (V. Kulkarni, B. Chapuis, B. Garbinato), <i>Proceedings of the First International Workshop on Human-centered Sensing, Networking, and Systems, HumanSys 2017 within ACM SenSys 2017</i>	0	2

<b>Titlu articol citat</b>	<b>Autori</b>	<b>Punctaj</b>
<i>"Efficient and Confidentiality-Preserving Content-Based Publish/Subscribe with Prefiltering"</i> (R. Barazzutti, E. Onica, P. Felber, H. Mercier, E. Rivière) - <i>IEEE Transactions on Dependable and Secure Computing</i> , Vol. 14, Issue 3, 2017	5	<b>28,39</b>
<b>Citări</b>	<b>FI</b>	
<i>A Comprehensive Security Framework for Publish/Subscribe-Based IoT Services Communication</i> (L. Duan, C.-A. Sun, Y. Zhang, W. Ni, J. Chen), <i>IEEE Access</i> , Volume 7, 2019	4,098	18,39
<i>Secure publish and subscribe systems with efficient revocation</i> (S. Belguith, S. Cui, M. R. Asghar, G. Russello), <i>Proceedings of the 33rd Annual ACM Symposium on Applied Computing</i> , SAC 2018	0	2
<i>Asymmetric DCnets for Effective and Efficient Sender Anonymity</i> (T. Grube, J. Daubert, M. Muhlhauser), <i>Proceedings of the IEEE Global Communications Conference</i> , GLOBECOM 2018	0	2
<i>MESA: An Efficient Matching Scheme in Content-Based Publish/Subscribe System with Simplified Bayesian Approach</i> (Q. Wang, D. Chen, Z. Ding, Z. Qin, Z. Qin), <i>Proceedings of the 3rd International Conference on Big Data Computing and Communications</i> , BIGCOM 2017	0	2
<i>Ant colonies for efficient and anonymous group communication systems</i> (T. Grube, S. Hauke, J. Daubert, M. Mühlhäuser), <i>Proceedings of the International Conference on Networked Systems</i> , NetSys 2017	0	2
<i>PACS: An Efficient Publish-Subscribe System with Secure Attribute-Based Access Control Scheme in IoT Context</i> (Q. Wang, D. Chen, Z. Ding, Z. Qin, Z. Qin), <i>Journal of Electronic Science and Technology</i> , Online First, 2017	0	2

<b>Titlu articol citat</b>	<b>Autori</b>	<b>Punctaj</b>
<i>"Efficient Key Updates through Subscription Re-encryption for Privacy-Preserving Publish/Subscribe"</i> (E. Onica, P. Felber, H. Mercier, E. Rivière), <i>The 16th ACM/IFIP/USENIX Annual Middleware Conference</i> , Middleware 2015	4	<b>120,84</b>
<b>Citări</b>	<b>FI</b>	
<i>Message-oriented Middleware: A Review</i> (J. Yongguo, L. Qiang, Q. Changshuai, S. Jian, L. Qianqian), <i>Proceedings of the 5th IEEE International Conference on Big Data Computing and Communications</i> , BIGCOM 2019	0	2,5
<i>A Comprehensive Security Framework for Publish/Subscribe-Based IoT Services Communication</i> (L. Duan, C.-A. Sun, Y. Zhang, W. Ni, J. Chen), <i>IEEE Access</i> , Volume 7, 2019	4,098	22,99
<i>Collusion Defender: Preserving Subscribers' Privacy in Publish and Subscribe Systems</i> (S. Cui, S. Belguith, P. De Alwis, M. R. Asghar, G. Russello), <i>IEEE Transactions on Dependable and Secure Computing</i> , Early Access, 2019	6,404	34,52
<i>Malicious Entities are in Vain: Preserving Privacy in Publish and Subscribe Systems</i> (S. Cui, S. Belguith, P. D. Alwis, M. R. Asghar, G. Russello), <i>Proceedings of the 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications</i> , TrustCom 2018	0	2,5

<i>Secure publish and subscribe systems with efficient revocation</i> (S. Belguith, S. Cui, M. R. Asghar, G. Russello), Proceedings of the 33rd Annual ACM Symposium on Applied Computing, SAC 2018	0	2,5
<i>Secret Sharing in Pub/Sub Using Trusted Execution Environments</i> (J. Munster, H.-A. Jacobsen), Proceedings of the 12th ACM International Conference on Distributed and Event-based Systems, DEBS 2018	0	2,5
<i>A Secure Privacy-Preserving Mutual Authentication Scheme for Publish-Subscribe Fog Computing</i> (F. M. Salem), Proceedings of the 14th International Computer Engineering Conference, ICENCO 2018	0	2,5
<i>PICADOR: End-to-end encrypted Publish-Subscribe information distribution with proxy re-encryption</i> (C. Borcea, A. D. Gupta, Y. Polyakov, K. Rohloff, G. Ryan), Future Generation Computer Systems, Volume 71, 2017	4,639	25,69
<i>An efficient subscription index for publication matching in the cloud</i> (Z. Cui, Z. Wu, C. Zhou, G. Gao, J. Yu, Z. Zhao, B. Wu), Knowledge-Based Systems, Volume 110, 2016	4,529	25,14

13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)

- străinătate: 25 puncte pentru fiecare activitate

- țară: 10 puncte pentru fiecare activitate

<b>Activitate</b>	<b>Punctaj</b>
Conferință: “Twinning: EBSIS - Event Based Systems in Iași”, prelegere invitată în cadrul NCP_WIDE.NET Infoday, un eveniment asociat conferinței WireX 2019, Academia Română, Iași, 26 Iunie 2019	10
Seminar științific: “Efficient Support for Confidentiality-Preserving Publish/Subscribe Systems”, prelegere invitată în cadrul Distributed Systems Research Group, Departamentul de Informatică, Universitatea din Konstanz, Germania, 8.09.2014	25
Atelier de lucru: Google Summer of Code meet-up event, cu prezentarea "The GSoC Experience", Institute of Informatics, Universitatea din Neuchâtel, Elveția, 27.02.2014	25
<b>Total</b>	<b>60</b>

16. Premii internaționale obținute printr-un proces de selecție

- 100 puncte/categorie/număr persoane

<b>Premiu</b>	<b>Persoane</b>	<b>Punctaj</b>
Best Paper Award la conferința ACM DEBS 2013 cu lucrarea “StreamHub: a Massively Parallel Architecture for High-Performance Content-Based Publish/Subscribe” (R. Barazzutti, P. Felber, C. Fetzer, E. Onica, J.F. Pineau, M. Pasin, E. Rivière, S. Weigert)	8	12,5
DEBS Grand Challenge Winner Award la conferința ACM DEBS 2017 cu lucrarea "Optimized Stage Processing for Anomaly Detection on Numerical Data Streams: Grand Challenge" (C. Amariei, P. Diac, E. Onica)	3	33,33

DEBS Grand Challenge Winner Award la conferința ACM DEBS 2018 cu lucrarea "Cell Grid Architecture for Maritime Route Prediction on AIS Data Streams" (C. Amariei, P. Diac, E. Onica, V. Roșca)	4	25
Best Position Award la conferința ICSOFT 2019 cu lucrarea -“From Confidential kNN Queries to Confidential Content Based Publish/Subscribe” (E. Onica, H. Mercier, E. Rivière)	3	33,33
<b>Total</b>		<b>104,16</b>

#### 19. Participări la manifestări științifice

- președinte comitet organizare/comitet științific: pct./activitate - 25/internaționale, 15/naționale
- membru comitet organizare/comitet științific: puncte/activitate - 15/internaționale, 5/naționale
- moderator de panel: puncte per activitate - 15/internaționale, 5/naționale
- raportor pe secțiuni/paneluri: puncte per activitate - 10/internaționale, 2/naționale

<b>Activitate</b>	<b>Punctaj</b>
The 15th European Dependable Computing Conference - EDCC 2019 (membru PC)	15
The 19th IFIP International Conference on Distributed Applications and Interoperable Systems - DAIS 2019 (membru PC)	15
The 14th European Dependable Computing Conference - EDCC 2018, Iași, Romania, 10-14 September 2018 (președinte comitet organizare – general chair)	25
EBSIS Summer School on Distributed Event Based Systems and Related Topics, Villars-sur-Ollon, Switzerland, 9-13 July, 2018 (membru în comitetul de organizare)	15
PhD Workshop in EBSIS Summer School 2018 (președinte - coordonator program științific)	25
BringITOn! Workshop, Iași, Romania, 13-14 December 2018 (membru în comitetul de organizare)	5
Scientific Seminars Day – Louvain House, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 16 April 2018 (membru în comitetul de organizare)	15
The 18th IFIP International Conference on Distributed Applications and Interoperable Systems - DAIS 2018 (membru PC)	15
EBSIS Summer School on Distributed Event Based Systems and Related Topics, Timmendorfer Strand, Germany, 10-14 July, 2017 (membru în comitetul de organizare)	15
PhD Workshop in EBSIS Summer School 2017 (președinte - coordonator program științific)	25
DIEBS - Dependability and Interoperability with Event-Based Systems, Special Keynotes Session in IFIP DisCoTec Federated Conference, 21 June 2017, Neuchatel, Switzerland (membru în comitetul de organizare)	15
The 21st International Conference on Principles of Distributed Systems - OPODIS 2017 (membru PC)	15
Elsevier Future Generation Computer Systems, Volume 71, June 2017 (recenzor invitat – raportor)	10

EBSIS Summer School on Distributed Event Based Systems and Related Topics, Sinaia, Romania, 12-15 July, 2016 (președinte comitet organizare – general chair)	25
PhD Workshop in EBSIS Summer School 2016 (președinte - coordonator program științific)	25
Event Based Systems and Related Topics Seminars Week – Université de Neuchatel, Switzerland, 30 May – 3 June 2016 (membru în comitetul de organizare)	15
Workshop on Mobility and Cloud Security and Privacy în cadrul conferinței IEEE SRDS 2016 (membru PC)	15
<b>Total</b>	<b>290</b>

**Total activitate cercetare (70%): 1931,90 puncte**

## **II Activitatea didactică (30%)**

3. Materiale suport curs, seminar, lucrări practice, și programe analitice detaliate

- 10 puncte pentru fiecare activitate

<b>Tip materiale</b>	<b>Punctaj</b>
Materiale suport curs pentru următoarele discipline: <ul style="list-style-type: none"> <li>- Sisteme bazate pe evenimente (Univ. Al. I. Cuza, România)</li> <li>- Blockchain – Fundamente și Aplicații (Univ. Al. I. Cuza, România)</li> </ul>	20
Materiale suport lucrări practice pentru următoarele discipline: <ul style="list-style-type: none"> <li>- Sisteme bazate pe evenimente (Univ. Al. I. Cuza, România)</li> <li>- Securitatea rețelelor de calculatoare (Univ. Al. I. Cuza, România)</li> <li>- Securitatea informației (Univ. Al. I. Cuza, România)</li> <li>- Concurrency (Univ. Neuchâtel, Elveția)</li> <li>- Rețele de calculatoare (Univ. Al. I. Cuza, România)</li> <li>- Computer networks (Univ. Al. I. Cuza, România)</li> <li>- Programare orientată obiect (Univ. Al. I. Cuza, România)</li> </ul>	70
<b>Total</b>	<b>90</b>

**Total activitate didactică (30%): 80 puncte**