Munindar P Singh

List of Publications by Year
in descending order

291 papers	8,555 citations	126907 33 h-index	79698 73 g-index
302 all docs	302 docs citations	302 times ranked	3900 citing authors

#	Article	IF	Citations
1	Moral and social ramifications of autonomous vehicles: a qualitative study of the perceptions of professional drivers. Behaviour and Information Technology, 2023, 42, 1271-1278.	4.0	0
2	Foureye: Defensive Deception Against Advanced Persistent Threats via Hypergame Theory. IEEE Transactions on Network and Service Management, 2022, 19, 112-129.	4.9	16
3	Investigating the Emotional Response to COVID-19 News on Twitter: A Topic Modeling and Emotion Classification Approach. IEEE Access, 2022, 10, 16883-16897.	4.2	11
4	Governance of Autonomous Agents on the Web: Challenges and Opportunities. ACM Transactions on Internet Technology, 2022, 22, 1-31.	4.4	2
5	Mandrake: multiagent systems as a basis for programming fault-tolerant decentralized applications. Autonomous Agents and Multi-Agent Systems, 2022, 36, 16.	2.1	6
6	A Digital Communication Twin for Addressing Misinformation: Vision, Challenges, Opportunities. IEEE Internet Computing, 2022, 26, 36-41.	3.3	1
7	Enhancing Creativity as Innovation via Asynchronous Crowdwork. , 2022, , .		2
8	Prosocial Norm Emergence in Multi-agent Systems. ACM Transactions on Autonomous and Adaptive Systems, 2022, 17, 1-24.	0.8	2
9	Artificial Intelligence and the Right to Explanation as a Human Right. IEEE Internet Computing, 2021, 25, 116-120.	3.3	2
10	Bungie: Improving Fault Tolerance via Extensible Application-Level Protocols. Computer, 2021, 54, 44-53.	1.1	9
11	Detecting Framing Changes in Topical News. IEEE Transactions on Computational Social Systems, 2021, 8, 780-791.	4.4	2
12	Hercule: Representing and Reasoning About Norms as a Foundation for Declarative Contracts Over Blockchain. IEEE Internet Computing, 2021, 25, 67-75.	3.3	3
13	A Gray Box Conceptual Model for Accountability and Ethics in Business Contracts. IEEE Internet Computing, 2021, 25, 13-19.	3.3	0
14	Interaction-Oriented Programming. , 2021, , .		0
15	Tango: Declarative Semantics for Multiagent Communication Protocols. , 2021, , .		2
16	<scp>Nova</scp> : Value-based Negotiation of Norms. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-29.	4.5	4
17	An interpretable framework for investigating the neighborhood effect in POI recommendation. PLoS ONE, 2021, 16, e0255685.	2.5	1
18	Toward a rational and ethical sociotechnical system of autonomous vehicles: A novel application of multi-criteria decision analysis. PLoS ONE, 2021, 16, e0256224.	2.5	8

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19	A Survey of Defensive Deception: Approaches Using Game Theory and Machine Learning. IEEE Communications Surveys and Tutorials, 2021, 23, 2460-2493.	39.4	40
20	Accountability as a Foundation for Requirements in Sociotechnical Systems. IEEE Internet Computing, 2021, 25, 33-41.	3.3	8
21	Deserv: Decentralized Serverless Computing. , 2021, , .		5
22	Sociotechnical Perspectives on AI Ethics and Accountability. IEEE Internet Computing, 2021, 25, 5-6.	3.3	3
23	Ã‡orba: crowdsourcing to obtain requirements from regulations and breaches. Empirical Software Engineering, 2020, 25, 532-561.	3.9	4
24	D ESEN. ACM Transactions on Software Engineering and Methodology, 2020, 29, 1-50.	6.0	9
25	From Machine Ethics to Internet Ethics: Broadening the Horizon. IEEE Internet Computing, 2020, 24, 51-57.	3.3	6
26	Ethics in Self-* Sociotechnical Systems: (Tutorial Abstract). , 2020, , .		0
27	Clouseau: Generating Communication Protocols from Commitments. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 7244-7252.	4.9	8
28	Protocols Over Things: A Decentralized Programming Model for the Internet of Things. Computer, 2020, 53, 60-68.	1.1	7
29	Computational Governance and Violable Contracts for Blockchain Applications. Computer, 2020, 53, 53-62.	1.1	13
30	Caspar. , 2020, , .		15
31	Requirements Engineering as Science in the Small. , 2019, , .		1
32	The public and legislative impact of hyperconcentrated topic news. Science Advances, 2019, 5, eaat8296.	10.3	6
33	Leveraging Structural and Semantic Correspondence for Attribute-Oriented Aspect Sentiment Discovery. , 2019, , .		0
34	The Interplay of Emotions and Norms in Multiagent Systems. , 2019, , .		4
35	Blockchains for Business Process Management - Challenges and Opportunities. ACM Transactions on Management Information Systems, 2018, 9, 1-16.	2.8	404
36	Designing Ethical Personal Agents. IEEE Internet Computing, 2018, 22, 16-22.	3.3	7

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37	Sociotechnical Systems and Ethics in the Large. , 2018, , .		30
38	A Conceptual Framework for Engineering Chatbots. IEEE Internet Computing, 2018, 22, 54-59.	3.3	15
39	Teaching Crowdsourcing: An Experience Report. IEEE Internet Computing, 2018, 22, 44-52.	3.3	4
40	Extraction of Natural Language Requirements from Breach Reports Using Event Inference. , 2018, , .		2
41	Toward effective adoption of secure software development practices. Simulation Modelling Practice and Theory, 2018, 85, 33-46.	3.8	9
42	GoCo: planning expressive commitment protocols. Autonomous Agents and Multi-Agent Systems, 2018, 32, 459-502.	2.1	5
43	Limbic: Author-Based Sentiment Aspect Modeling Regularized with Word Embeddings and Discourse Relations. , 2018, , .		6
44	Robust Norm Emergence by Revealing and Reasoning about Context: Socially Intelligent Agents for Enhancing Privacy. , 2018, , .		10
45	SoSharP: Recommending Sharing Policies in Multiuser Privacy Scenarios. IEEE Internet Computing, 2018, , 1-1.	3.3	0
46	Continuous Authentication and Authorization for the Internet of Things. IEEE Internet Computing, 2017, 21, 86-90.	3.3	70
47	Computing Team Process Measures From the Structure and Content of Broadcast Collaborative Communications. IEEE Transactions on Computational Social Systems, 2017, 4, 26-39.	4.4	8
48	A service computing manifesto. Communications of the ACM, 2017, 60, 64-72.	4.5	180
49	Sharing Policies in Multiuser Privacy Scenarios. ACM Transactions on Computer-Human Interaction, 2017, 24, 1-29.	5.7	38
50	Leveraging Sentiment Analysis for Classifying Patient Complaints. , 2017, , .		5
51	A Mechanism for Cooperative Demand-Side Management. , 2017, , .		2
52	How Good Is a Security Policy against Real Breaches? A HIPAA Case Study. , 2017, , .		19
53	The Internet of Things and Multiagent Systems: Decentralized Intelligence in Distributed Computing. , 2017, , .		25
54	Toward Automating Crowd RE. , 2017, , .		14

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55	Aragorn: Eliciting and Maintaining Secure Service Policies. Computer, 2017, 50, 50-58.	1.1	2
56	SoSharP: Recommending Sharing Policies in Multiuser Privacy Scenarios. IEEE Internet Computing, 2017, 21, 28-36.	3.3	22
57	Triaging Patient Complaints: Monte Carlo Cross-Validation of Six Machine Learning Classifiers. JMIR Medical Informatics, 2017, 5, e19.	2.6	10
58	Tosca: Operationalizing Commitments Over Information Protocols. , 2017, , .		2
59	Toward a normative approach for forensicability. , 2016, , .		0
60	Normative Requirements in Sociotechnical Systems. , 2016, , .		0
61	Percimo: A personalized community model for location estimation in social media. , 2016, , .		4
62	Privacy Risks in Intelligent User Interfaces. IEEE Internet Computing, 2016, 20, 57-61.	3.3	4
63	Toward entrepreneurial pedagogies: Rethinking professional networking as knowledge making. , 2016, , .		2
64	Acquiring Creative Requirements from the Crowd: Understanding the Influences of Personality and Creative Potential in Crowd RE. , 2016, , .		38
65	NANE: Identifying Misuse Cases Using Temporal Norm Enactments. , 2016, , .		9
66	Classifying sanctions and designing a conceptual sanctioning process model for socio-technical systems. Knowledge Engineering Review, 2016, 31, 142-166.	2.6	29
67	Revani: Revising and Verifying Normative Specifications for Privacy. IEEE Intelligent Systems, 2016, 31, 8-15.	4.0	17
68	DIGS. , 2016, , .		12
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70	From Social Machines to Social Protocols. , 2016, , .		31
71	Towards characterization of photo-excited electron transfer and catalysis in natural and artificial systems using XFELs. Faraday Discussions, 2016, 194, 621-638.	3.2	19
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73	Engineering Privacy in Social Applications. IEEE Internet Computing, 2016, 20, 72-76.	3.3	3
74	Formal Understanding of Tradeoffs among Liveness and Safety Requirements. , 2016, , .		0
75	Understanding sanction under variable observability in a secure, collaborative environment. , 2015, , .		0
76	Platys: From Position to Place-Oriented Mobile Computing. AI Magazine, 2015, 36, 50-62.	1.6	8
77	Resolving goal conflicts via argumentation-based analysis of competing hypotheses. , 2015, , .		30
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79	Modeling analytics as knowledge work: Computing meets organizational psychology. , 2015, , .		0
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84	Exploiting sentiment homophily for link prediction. , 2014, , .		42
85	Bliss: Specifying Declarative Service Protocols. , 2014, , .		5
86	Argument schemes for reasoning about trust. Argument and Computation, 2014, 5, 160-190.	1.1	24
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89	Engineering Service Engagements via Commitments. IEEE Internet Computing, 2014, 18, 46-54.	3.3	4
90	Licit: Administering Usage Licenses in Federated Environments. IEEE Transactions on Services Computing, 2014, 7, 96-108.	4.6	3

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91	Protos: Foundations for engineering innovative sociotechnical systems. , 2014, , .		24
92	The thing itself speaks: Accountability as a foundation for requirements in sociotechnical systems. , 2014, , .		12
93	Supervised Semantic Analysis of Product Reviews Using Weighted k-NN Classifier. , 2014, , .		10
94	Determining Team Hierarchy from Broadcast Communications. Lecture Notes in Computer Science, 2014, , 493-507.	1.3	3
95	ReNew: A Semi-Supervised Framework for Generating Domain-Specific Lexicons and Sentiment Analysis. , 2014, , .		18
96	The science of security. , 2014, , .		0
97	Shin: Generalized Trust Propagation with Limited Evidence. Computer, 2013, 46, 78-85.	1.1	16
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99	Research directions in agent communication. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-23.	4.5	14
100	Adaptive Process Execution in a Service Cloud: Service Selection and Scheduling Based on Machine Learning. , 2013, , .		2
101	Introduction to special section on trust in multiagent systems. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-2.	4.5	0
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110	Mining Business Contracts for Service Exceptions. IEEE Transactions on Services Computing, 2012, 5, 333-344.	4.6	29
111	Behind the Curtain: Service Selection via Trust in Composite Services. , 2012, , .		13
112	Specifying and Verifying Cross-Organizational Business Models: An Agent-Oriented Approach. IEEE Transactions on Services Computing, 2012, 5, 305-318.	4.6	61
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115	Platys Social: Relating Shared Places and Private Social Circles. IEEE Internet Computing, 2012, 16, 53-59.	3.3	13
116	Koko: an architecture for affect-aware games. Autonomous Agents and Multi-Agent Systems, 2012, 24, 255-286.	2.1	8
117	Emerging Properties of Knowledge Sharing Referral Networks: Considerations of Effectiveness and Fairness. Lecture Notes in Computer Science, 2012, , 13-23.	1.3	1
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120	Colaba: Collaborative design of cross-organizational processes. , 2011, , .		4
121	LoST: Local State Transfer -- An Architectural Style for the Distributed Enactment of Business Protocols. , 2011, , .		12
122	Formal Methods in Agent-Oriented Software Engineering. Lecture Notes in Computer Science, 2011, , 213-228.	1.3	6
123	Trustworthy Service Selection and Composition. ACM Transactions on Autonomous and Adaptive Systems, 2011, 6, 1-17.	0.8	63
124	Self-Renewing Applications. IEEE Internet Computing, 2011, 15, 3-5.	3.3	4
125	Intertemporal Discount Factors as a Measure of Trustworthiness in Electronic Commerce. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 699-712.	5.7	15
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131	Programming Multiagent Systems without Programming Agents. Lecture Notes in Computer Science, 2010, , 1-14.	1.3	5
132	Evidence-based trust. ACM Transactions on Autonomous and Adaptive Systems, 2010, 5, 1-28.	0.8	72
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138	Elements of a Business-Level Architecture for Multiagent Systems. Lecture Notes in Computer Science, 2010, , 15-30.	1.3	5
139	Multidisciplinary Views of Business Contracts. Lecture Notes in Computer Science, 2010, , 730-730.	1.3	2
140	Requirements as Goals and Commitments Too. , 2010, , 137-153.		5
141	Integrating marine observatories into a system-of-systems: Messaging in the US Ocean Observatories Initiative. , 2009, , .		2
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143	Commitment-Based Service-Oriented Architecture. Computer, 2009, 42, 72-79.	1.1	72
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145	Enhancing Tropos with Commitments. Lecture Notes in Computer Science, 2009, , 417-435.	1.3	15
146	Business Modeling via Commitments. Lecture Notes in Computer Science, 2009, , 111-125.	1.3	13
147	Architecture for Affective Social Games. Lecture Notes in Computer Science, 2009, , 79-94.	1.3	7
148	Modelling Interactions via Commitments and Expectations. , 2009, , 263-284.		23
149	Incorporating Events into Cross-Organizational Business Processes. IEEE Internet Computing, 2008, 12, 46-53.	3.3	11
150	Virtual Organizations [Guest Editors' Introduction]. IEEE Internet Computing, 2008, 12, 10-12.	3.3	8
151	Design Patterns for Policy-Based Service Engagements. , 2008, , .		2
152	Interoperation in Protocol Enactment. Lecture Notes in Computer Science, 2008, , 36-49.	1.3	0
153	Dynamics of contracts-based organizations. , 2007, , .		1
154	Enacting protocols by commitment concession. , 2007, , .		11
155	An event-driven approach for agent-based business process enactment. , 2007, , .		1
156	InterPol. , 2007, , .		0
157	Toward verification of commitment protocols and their compositions. , 2007, , .		16
158	Choice and interoperation in protocol enactment. , 2007, , .		0
159	Governance of Cross-Organizational Service Agreements: A Policy-Based Approach. , 2007, , .		7
160	Engineering Foreign Exchange Processes via Commitment Protocols. , 2007, , .		18
161	Logic-Based Agent Verification. Journal of Applied Logic, 2007, 5, 193-195.	1.1	5
162	An algebra for commitment protocols. Autonomous Agents and Multi-Agent Systems, 2007, 14, 143-163.	2.1	46

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164	An overview of business process adaptations via protocols. , 2006, , .		4
165	Specifying and resolving preferences among agent interaction patterns. , 2006, , .		2
166	Contextualizing commitment protocol. , 2006, , .		35
167	Interaction-Oriented Programming: Concepts, Theories, and Results on Commitment Protocols. Lecture Notes in Computer Science, 2006, , 5-6.	1.3	0
168	Multiagent Policy Architecture for Virtual Business Organizations. , 2006, , .		7
169	Incorporating Commitment Protocols into Tropos. Lecture Notes in Computer Science, 2006, , 69-80.	1.3	8
170	OWL-P: A Methodology for Business Process Development. Lecture Notes in Computer Science, 2006, , 79-94.	1.3	17
171	Producing Compliant Interactions: Conformance, Coverage, and Interoperability. Lecture Notes in Computer Science, 2006, , 1-15.	1.3	20
172	Secure Data Management in Reactive Sensor Networks. Lecture Notes in Computer Science, 2006, , 235-248.	1.3	1
173	A Semantic Approach for Designing E-Business Protocols. Lecture Notes in Computer Science, 2005, , 111-123.	1.3	3
174	A Semantic Approach for Designing Commitment Protocols. Lecture Notes in Computer Science, 2005, , 33-49.	1.3	10
175	Enabling Persistent Web Services via Commitments. Information Technology and Management, 2005, 6, 41-60.	2.4	4
176	Analyzing Multiparty Agreements with Commitments. Lecture Notes in Computer Science, 2005, , 85-96.	1.3	0
177	Modeling exceptions via commitment protocols. , 2005, , .		24
178	Agent-based trust model involving multiple qualities. , 2005, , .		54
179	Toward Web services interaction styles. , 2005, , .		12
180	Interaction protocols as design abstractions for business processes. IEEE Transactions on Software Engineering, 2005, 31, 1015-1027.	5.6	94

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181	Engineering Self-Organizing Referral Networks for Trustworthy Service Selection. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2005, 35, 396-407.	2.9	66
182	Research Directions for Service-Oriented Multiagent Systems. IEEE Internet Computing, 2005, 9, 65-70.	3.3	104
183	Service-oriented computing: key concepts and principles. IEEE Internet Computing, 2005, 9, 75-81.	3.3	676
184	Agent-Based Abstractions for Software Development. , 2004, , 5-18.		3
185	A semantic approach for designing business protocols. , 2004, , .		0
186	Protocols for processes. , 2004, , .		4
187	Reasoning about Commitments in the Event Calculus: An Approach for Specifying and Executing Protocols. Annals of Mathematics and Artificial Intelligence, 2004, 42, 227-253.	1.3	95
188	Agent-based service selection. Web Semantics, 2004, 1, 261-279.	2.9	119
189	A DAML-based repository for QoS-aware semantic Web service selection. , 2004, , .		32
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191	Toward autonomic web services trust and selection. , 2004, , .		220
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200	Deriving Efficient SQL Sequences via Read-Aheads. Lecture Notes in Computer Science, 2004, , 299-308.	1.3	3
201	Searching social networks. , 2003, , .		128
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228	Synthesizing Coordination Requirements for Heterogeneous Autonomous Agents. Autonomous Agents and Multi-Agent Systems, 2000, 3, 107-132.	2.1	29
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