Stephen M Fiore

List of Publications by Year
in descending order

144 papers	4,109 citations	159585 30 h-index	144013 57 g-index
153 all docs	153 docs citations	153 times ranked	3338 citing authors

#	Article	IF	Citations
1	Supporting Artificial Social Intelligence With Theory of Mind. Frontiers in Artificial Intelligence, 2022, 5, 750763.	3.4	23
2	EveryBOTy Counts: Examining Human–Machine Teams in Open Source Software Development. Topics in Cognitive Science, 2022, , .	1.9	2
3	Metrics and mechanisms: Measuring the unmeasurable in the science of science. Journal of Informetrics, 2022, 16, 101290.	2.9	13
4	Me, Myself, and the (Virtual) World: A Review of Learning Research in 4E Cognition and Immersive Virtual Reality. Lecture Notes in Computer Science, 2022, , 59-73.	1.3	1
5	Influence Dynamics Among Narratives. Lecture Notes in Computer Science, 2021, , 204-213.	1.3	0
6	A Meta-Review of Learning Research in Immersive Virtual Reality. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 894-898.	0.3	0
7	Promoting Feedback Processes in Multicultural Teams: Avenues for Future Research. Proceedings - Academy of Management, 2020, 2020, 13568.	0.1	0
8	Analyzing the Productivity of GitHub Teams based on Formation Phase Activity. , 2020, , .		2
9	Examining Enhanced Learning Diagnostics in Virtual Reality Flight Trainers. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1476-1480.	0.3	3
10	What's the Difference? Reconciling Knowledge Structure Concepts to Aid AI Development for Human-Machine Teaming. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1110-1114.	0.3	1
11	Multiscale movement coordination dynamics in collaborative team problem solving. Applied Ergonomics, 2019, 79, 143-151.	3.1	31
12	Expertise and Complexity as Mediators of Knowledge Loss in Open Source Software Development. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1580-1584.	0.3	1
13	Reading the Mind in Robots: How Theory of Mind Ability Alters Mental State Attributions During Human-Robot Interactions. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1550-1554.	0.3	4
14	Examining Training Comprehension and External Cognition in Evaluations of Uncertainty Visualizations to Support Decision Making. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1654-1658.	0.3	3
15	Training to Be a (Team) Scientist. , 2019, , 421-444.		14
16	Determining the Effect of Training on Uncertainty Visualization Evaluations. Advances in Intelligent Systems and Computing, 2019, , 141-152.	0.6	2
17	Problem–Solving Phase Transitions During Team Collaboration. Cognitive Science, 2018, 42, 129-167.	1.7	59
18	Advancing the Science of Collaborative Problem Solving. Psychological Science in the Public Interest: A Journal of the American Psychological Society, 2018, 19, 59-92.	10.7	158

#	Article	IF	Citations
19	Developing Theory and Methods to Understand and Improve Collaboration in Open Source Software Development on GitHub. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1118-1122.	0.3	3
20	Examining the Impact of Training and Feedback on Visualization-Supported Decision Making under Uncertainty. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1449-1453.	0.3	2
21	Effects of Social Cues on Social Signals in Human-Robot Interaction During a Hallway Navigation Task. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1128-1132.	0.3	9
22	Macrocognition in Teams and Metacognition: Developing Instructional Strategies for Complex Collaborative Problem Solving. Research on Managing Groups and Teams, 2018, , 33-54.	0.6	9
23	Towards a computational model of social norms. PLoS ONE, 2018, 13, e0195331.	2.5	6
24	Interdisciplinary approaches for uncovering the impacts of architecture on collective behaviour. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170232.	4.0	23
25	Collaborative problem-solving education for the twenty-first-century workforce. Nature Human Behaviour, 2018, 2, 367-369.	12.0	61
26	The science of team science: A review of the empirical evidence and research gaps on collaboration in science.. American Psychologist, 2018, 73, 532-548.	4.2	257
27	From Data, to Information, to Knowledge: Measuring Knowledge Building in the Context of Collaborative Cognition. , 2018, , 179-200.		3
28	Innovation in Team Interaction: New Methods for Assessing Collaboration Between Brains and Bodies Using a Multi-level Framework. Methodology of Educational Measurement and Assessment, 2017, , 51-64.	0.4	6
29	The impact of architecture on collective behaviour. Nature Ecology and Evolution, 2017, 1, 111.	7.8	37
30	An External Cognition Framework for Visualizing Uncertainty in Support of Situation Awareness. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1198-1202.	0.3	3
31	Developing A Theoretical Framework of Task Complexity for Research on Visualization in Support of Decision Making Under Uncertainty. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1193-1197.	0.3	2
32	Organizational and training factors that promote team science: A qualitative analysis and application of theory to the National Institutes of Health's BIRCWH career development program. Journal of Clinical and Translational Science, 2017, 1, 101-107.	0.6	17
33	Collaborative Problem-Solving and Team Development: Extending the Macrocognition in Teams Model through Considerations of the Team Life Cycle. Research on Managing Groups and Teams, 2017, , 189-208.	0.6	2
34	Enabling robotic social intelligence by engineering human social-cognitive mechanisms. Cognitive Systems Research, 2017, 43, 190-207.	2.7	29
35	Processes in Complex Team Problem-solving: Parsing and Defining the Theoretical Problem Space. , 2017, , 143-163.		4
36	Technology as Teammate: Examining the Role of External Cognition in Support of Team Cognitive Processes. Frontiers in Psychology, 2016, 7, 1531.	2.1	77

#	Article	IF	Citations
37	Clustering social cues to determine social signals: developing learning algorithms using the "n-most likely states" approach. Proceedings of SPIE, 2016, , .	0.8	2
38	From Cognitive Theory to Operational Transition: One Program's Path Across the Valley of Death. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 163-167.	0.3	1
39	The Application and Extension of the Human-Animal Team Model to Better Understand Human-Robot Interaction: Recommendations for Further Research. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1225-1229.	0.3	0
40	Similarity, Complementarity, and Agency in HRI. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1230-1234.	0.3	10
41	Of Mental States and Machine Learning. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1362-1366.	0.3	2
42	Establishing team knowledge coordination from a learning perspective. Human Performance, 2016, 29, 33-53.	2.4	25
43	Effects of Robotic Social Cues on Interpersonal Attributions and Assessments of Robot Interaction Behaviors. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 801-805.	0.3	12
44	Conflict, Trust, and Cohesion: Examining Affective and Attitudinal Factors in Science Teams. Research on Managing Groups and Teams, 2015, , 271-301.	0.6	10
45	Applying Research in the Cognitive Sciences to the Design and Delivery of Instruction in Virtual Reality Learning Environments. Lecture Notes in Computer Science, 2015, , 280-291.	1.3	10
46	Shifting the paradigm of music instruction: implications of embodiment stemming from an augmented reality guitar learning system. Frontiers in Psychology, 2014, 5, 471.	2.1	20
47	An interdisciplinary taxonomy of social cues and signals in the service of engineering robotic social intelligence. Proceedings of SPIE, 2014, , .	0.8	2
48	Developing the Future Workforce: An Approach for Integrating Interpersonal Skills Into the MBA Classroom. Academy of Management Learning and Education, 2014, 13, 171-186.	2.5	124
49	No Time, No Problem. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1341-1345.	0.3	3
50	A Transdisciplinary Perspective on Hedonomic Sustainability Design. Ergonomics in Design, 2014, 22, 22-29.	0.7	12
51	Social Cognitive and Affective Neuroscience in Human–Machine Systems: A Roadmap for Improving Training, Human–Robot Interaction, and Team Performance. IEEE Transactions on Human-Machine Systems, 2014, 44, 779-787.	3.5	30
52	Enhancing learning outcomes in computer-based training via self-generated elaboration. Instructional Science, 2014, 42, 839-859.	2.0	5
53	Complex Collaborative Problem-Solving Processes in Mission Control. Aviation, Space, and Environmental Medicine, 2014, 85, 456-461.	0.5	17
54	Training for Collaborative Problem Solving. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1154-1158.	0.3	5

#	Article	IF	Citations
55	Leveraging Social Judgment Theory to Examine the Relationship between Social Cues and Signals in Human-Robot Interactions. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1336-1340.	0.3	10
56	Prospects for direct social perception: a multi-theoretical integration to further the science of social cognition. Frontiers in Human Neuroscience, 2014, 8, 1007.	2.0	22
57	Developing a Scale of Environmental Efficacy. International Journal of Sustainability Policy and Practice, 2014, 8, 169-195.	0.1	7
58	Scientific genius: In different guises. Nature, 2013, 494, 430-430.	27.8	4
59	The Team Science Toolkit. American Journal of Preventive Medicine, 2013, 45, 787-789.	3.0	64
60	Human Factors in Commercial Human Space Operations. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 16-20.	0.3	1
61	Effects of Robot Gaze and Proxemic Behavior on Perceived Social Presence during a Hallway Navigation Scenario. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1273-1277.	0.3	13
62	Sustainable and User-Centered. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 550-554.	0.3	6
63	Perceptual training for visual search. Ergonomics, 2013, 56, 1101-1115.	2.1	23
64	Application of Cognitive Load Theory to Develop a Measure of Team Cognitive Efficiency. Military Psychology, 2013, 25, 252-265.	1.1	12
65	A Dual-Process Approach to Understanding Human-Robot Interaction. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1263-1267.	0.3	9
66	Towards Modeling Social-Cognitive Mechanisms in Robots to Facilitate Human-Robot Teaming. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1278-1282.	0.3	17
67	What can Training Researchers Gain from Examination of Methods for Active-Learning (PBL, TBL, and) Tj ETQq1 1 0.784314 rgBT /Overl	0.3	5
68	Toward understanding social cues and signals in human–robot interaction: effects of robot gaze and proxemic behavior. Frontiers in Psychology, 2013, 4, 859.	2.1	82
69	Picking Up STEAM: Educational Implications for Teaching with an Augmented Reality Guitar Learning System. Lecture Notes in Computer Science, 2013, , 170-178.	1.3	8
70	Trust Development in Swift Starting Action Teams. Group and Organization Management, 2012, 37, 137-170.	4.4	117
71	A Team Cognitive Readiness Framework for Small-Unit Training. Journal of Cognitive Engineering and Decision Making, 2012, 6, 325-349.	2.3	18
72	The Play Experience Scale. Human Factors, 2012, 54, 214-225.	3.5	29

#	Article	IF	Citations
73	Conceptualizing Cognition at Multiple Levels in Support of Training Team Cognitive Readiness. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 448-452.	0.3	2
74	Supporting Human-Robot Teams in Social Dynamicism: an overview of the Metaphoric Inference Framework. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1718-1722.	0.3	11
75	Integrating Principles of Environmental Sustainability into Human Factors Education: A Recommendation. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1832-1836.	0.3	3
76	Charting a course for collaboration: a multiteam perspective. Translational Behavioral Medicine, 2012, 2, 487-494.	2.4	37
77	Facilitating Innovation in Diverse Science Teams Through Integrative Capacity. Small Group Research, 2012, 43, 527-558.	2.7	135
78	The importance of shared mental models and shared situation awareness for transforming robots from tools to teammates. Proceedings of SPIE, 2012, , .	0.8	28
79	Differential impact of two types of metacognitive prompting provided during simulation-based training. Computers in Human Behavior, 2012, 28, 696-702.	8.5	23
80	Linguistic correlates of self in deceptive oral autobiographical narratives. Consciousness and Cognition, 2011, 20, 547-555.	1.5	13
81	Mapping a research agenda for the science of team science. Research Evaluation, 2011, 20, 143-156.	2.6	112
82	Human-Robot Teams Collaborating Socially, Organizationally, and Culturally. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 465-469.	0.3	12
83	Towards a Quantification Scheme for External Representations in Team Cognition Research. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1437-1441.	0.3	2
84	Towards Triadic Interactions in Autism and Beyond: Transitional Objects, Joint Attention, and Social Robotics. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1486-1490.	0.3	5
85	Embodied Cognitive Fidelity and the Advancement of Human Robot Team Simulations. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1506-1510.	0.3	3
86	The Mediating Effect of Perceived Task Complexity on Perceived Team Sharedness and Performance. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 242-246.	0.3	0
87	A Multi-Level Systems Perspective for the Science of Team Science. Science Translational Medicine, 2010, 2, 49cm24.	12.4	239
88	Emerging multi-disciplinary theoretical perspectives in team cognition: an overview. Theoretical Issues in Ergonomics Science, 2010, 11, 245-249.	1.8	8
89	Human Centric Environmentalism: Opportunities for the Human Factors Community to Contribute to Global Environmental Solutions. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 793-797.	0.3	5
90	Component versus Holistic Visual Search Training for Improvised Explosive Detection. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1635-1639.	0.3	1

#	ARTICLE	IF	CITATIONS
91	Insights from empirical metacognitive research. , 2010, , .		0
92	Toward an Understanding of Macrocognition in Teams: Predicting Processes in Complex Collaborative Contexts. Human Factors, 2010, 52, 203-224.	3.5	168
93	Accelerated Learning: Prospects, Issues and Applications. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 399-402.	0.3	2
94	Towards an understanding of macrocognition in teams: developing and defining complex collaborative processes and products. Theoretical Issues in Ergonomics Science, 2010, 11, 250-271.	1.8	71
95	Cognitive architecture for perception-reaction intelligent computer agents (CAPRICA). , 2009, , .		0
96	Enhancing Unmanned Aerial System Training: A Taxonomy of Knowledge, Skills, Attitudes, and Methods. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1903-1907.	0.3	10
97	Adopting the Training Cycle for Trust Training in Swift Starting Action Teams. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1913-1917.	0.3	0
98	Advancing the Science of Training in Simulation-Based Training. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1932-1934.	0.3	2
99	Embedding Metacognitive Prompts during SBT to Improve Knowledge Acquisition. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1939-1943.	0.3	3
100	Narrative-Based Collaboration Systems for Distributed Teams: Nine Research Questions for Information Managers. Information Systems Management, 2009, 26, 28-38.	5.7	10
101	Virtual experiments and environmental policy. Journal of Environmental Economics and Management, 2009, 57, 65-86.	4.7	95
102	Accelerated Learning (?). IEEE Intelligent Systems, 2009, 24, 18-22.	4.0	19
103	Designing Learner-Centered Multimedia Technology. , 2009, , 1059-1064.		1
104	Using Visual Attention Video Games and Traditional Interventions to Improve Baggage Screening. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1493-1497.	0.3	1
105	Interdisciplinarity as Teamwork. Small Group Research, 2008, 39, 251-277.	2.7	216
106	Learning and Performance Across Disciplines: An Epilogue for Moving Multidisciplinary Research Toward an Interdisciplinary Science of Expertise. Military Psychology, 2008, 20, S155-S170.	1.1	35
107	Cognition, Competition, and Coordination: The â€œWhyâ€•and the â€œHowâ€•of the Relevance of the Sports Sciences to Learning and Performance in the Military. Military Psychology, 2008, 20, S1-S9.	1.1	13
108	Complexity in Collaboration: Developing an Understanding of Macrocognition in Teams through Examination of Task Complexity. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1425-1429.	0.3	2

#	Article	IF	Citations
109	Knowledge Management Revisited. IEEE Intelligent Systems, 2008, 23, 84-88.	4.0	15
110	Expertise and Naturalistic Decision Making in Organizations: Mechanisms of Effective Decision Making. , 2008, , .		12
111	Perceptual (Re)learning: A Leverage Point for Human-Centered Computing. IEEE Intelligent Systems, 2007, 22, 79-83.	4.0	29
112	Narrative theory and distributed training: Using the narrative form for debriefing distributed simulation-based exercises.. , 2007, , 119-145.		3
113	Problems and possibilities: Strategicially pursuing a science of learning in distributed environments.. , 2007, , 237-264.		5
114	Augmenting team cognition in human-automation teams performing in complex operational environments. Aviation, Space, and Environmental Medicine, 2007, 78, B63-70.	0.5	17
115	Enhancing Learners' Cognitive and Metacognitive Processes via Self-Generated Elaboration. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1968-1972.	0.3	0
116	The Making of a Dream Team: When Expert Teams Do Best. , 2006, , 439-454.		55
117	Computer Based Training and Multimedia Design: The Role of Spatial Aptitudes in Learning. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1231-1235.	0.3	1
118	Cultural Evolution in Team Problem Solving. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1774-1778.	0.3	0
119	Human Experience Modeler: Context-Driven Cognitive Retraining to Facilitate Transfer of Learning. Cyberpsychology, Behavior and Social Networking, 2006, 9, 183-187.	2.2	19
120	Team cognition and expert teams: Developing insights from cross –disciplinary analysis of exceptional teams. International Journal of Sport and Exercise Psychology, 2006, 4, 369-375.	2.1	38
121	Understanding Performance and Cognitive Efficiency when Training for X-Ray Security Screening. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 2610-2614.	0.3	13
122	Investigating Individual Differences and Instructional Efficiency in Computer-Based Training Environments. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1251-1255.	0.3	2
123	Using Guided Learner-Generated Instructional Strategies to Transform Learning into a Constructive Cognitive and Metacognitive Activity. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 1049-1053.	0.3	2
124	Conceptualizing the Training Space: Constructing Hierarchies to Integrate Time and Space for Distributed Debriefings. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 2562-2566.	0.3	2
125	Fostering constructive cognitive and metacognitive activity in computer-based complex task training environments. Computers in Human Behavior, 2004, 20, 225-241.	8.5	62
126	Process mapping and shared cognition: Teamwork and the development of shared problem models.. , 2004, , 133-152.		51

#	Article	IF	Citations
127	Why we need team cognition.. , 2004, , 235-248.		52
128	Team Situation Assessment Training for Adaptive Coordination. , 2004, , 55-1-55-8.		3
129	A picture is worth a thousand connections: the facilitative effects of diagrams on mental model development and task performance. Computers in Human Behavior, 2003, 19, 185-199.	8.5	61
130	Distributed coordination space: Toward a theory of distributed team process and performance. Theoretical Issues in Ergonomics Science, 2003, 4, 340-364.	1.8	138
131	Impact of Multimedia Presentation on Knowledge Acquisition for Complex Training. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 2042-2044.	0.3	2
132	Similarity and Priority of the Submarine Officer of the Deck: Assessing Knowledge Structures. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 297-301.	0.3	1
133	Shared Mental Models at the Intra- and Inter-Team Level: Applications to Counter-Terrorism and Crisis Response for Homeland Security. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 439-443.	0.3	3
134	The Role of Shared Cognition in Enabling Shared Leadership and Team Adaptability. , 2003, , 103-122.		75
135	Training individuals for distributed teams: problem solving assessment for distributed mission research. Computers in Human Behavior, 2002, 18, 729-744.	8.5	38
136	How did you get here from there? Verbal overshadowing of spatial mental models. Applied Cognitive Psychology, 2002, 16, 897-910.	1.6	31
137	Emerging themes in distance learning research and practice: some food for thought. International Journal of Management Reviews, 2002, 4, 135-153.	8.3	80
138	Title is missing!. Instructional Science, 2002, 30, 433-464.	2.0	98
139	The Facilitative Effects of Diagrams on Scaffolding Knowledge Acquisition and Metacognition in Low Verbal Ability Learners. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 936-940.	0.3	4
140	Convergence or Divergence of Expert Mental Models: The Utility of Knowledge Structure Assessment in Training Research. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 427-430.	0.3	4
141	Perceptual and Conceptual Processing in Expert Cue Pattern Recognition. Proceedings of the Human Factors and Ergonomics Society, 1999, 43, 138-142.	0.3	0
142	At a Loss From Words: Verbal Overshadowing of Perceptual Memories. Psychology of Learning and Motivation - Advances in Research and Theory, 1997, , 291-340.	1.1	76
143	Cognition and Technology: Interdisciplinarity and the Impact of Cognitive Engineering Research on Organizational Productivity. , 0, , 1306-1322.		24
144	Accelerated Expertise. , 0, , .		40