

Mohamed Chetouani

List of Publications by Year in descending order

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Version: 2024-02-01

169
papers

4,627
citations

147801

31
h-index

144013

57
g-index

177
all docs

177
docs citations

177
times ranked

3804
citing authors

#	ARTICLE	IF	CITATIONS
1	What if Social Robots Look for Productive Engagement?. International Journal of Social Robotics, 2022, 14, 55-71.	4.6	13
2	How does Modality Matter? Investigating the Synthesis and Effects of Multi-modal Robot Behavior on Social Intelligence. International Journal of Social Robotics, 2022, 14, 893-911.	4.6	9
3	Automatic Assessment of Motor Impairments in Autism Spectrum Disorders: A Systematic Review. Cognitive Computation, 2022, 14, 624-659.	5.2	5
4	Semiautomatic Behavioral Change-Point Detection: A Case Study Analyzing Children Interactions With a Social Agent. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 779-790.	3.8	1
5	Towards Transparent Robot Learning Through TDRL-Based Emotional Expressions. IEEE Transactions on Affective Computing, 2021, 12, 352-362.	8.3	21
6	CLIC: Curriculum Learning and Imitation for Object Control in Nonrewarding Environments. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 239-248.	3.8	9
7	Age-related changes in gaze behaviour during social interaction: An eye-tracking study with an embodied conversational agent. Quarterly Journal of Experimental Psychology, 2021, 74, 1128-1139.	1.1	9
8	“It Is Not the Robot Who Learns, It Is Me.” Treating Severe Dysgraphia Using Child-Robot Interaction. Frontiers in Psychiatry, 2021, 12, 596055.	2.6	22
9	2nd Edition of Solutions for Socially Intelligent HRI in Real-World Scenarios (SSIR-HRI). , 2021, , .		0
10	Robots for Learning - Learner-Centred Design. , 2021, , .		1
11	“Motherese” Prosody in Fetal-Directed Speech: An Exploratory Study Using Automatic Social Signal Processing. Frontiers in Psychology, 2021, 12, 646170.	2.1	5
12	Reinforcement Learning With Human Advice: A Survey. Frontiers in Robotics and AI, 2021, 8, 584075.	3.2	21
13	Explainable Embodied Agents Through Social Cues. ACM Transactions on Human-Robot Interaction, 2021, 10, 1-24.	4.1	28
14	Robot Gaze Behavior and Proxemics to Coordinate Conversational Roles in Group Interactions. , 2021, , .		2
15	Exploiting the Interplay between Social and Task Dimensions of Cohesion to Predict its Dynamics Leveraging Social Sciences. , 2021, , .		4
16	Exploring Behavioral Creativity of a Proactive Robot. Frontiers in Robotics and AI, 2021, 8, 694177.	3.2	1
17	Conception des Interactions avec un Patient Virtuel Alzheimer pour la Formation du Personnel Soignant. , 2021, , .		1
18	Non-Verbal behaviors analysis of healthcare professionals engaged with a Virtual-Patient. , 2021, , .		1

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19	Does the Goal Matter? Emotion Recognition Tasks Can Change the Social Value of Facial Mimicry Towards Artificial Agents. <i>Frontiers in Robotics and AI</i> , 2021, 8, 699090.	3.2	1
20	Computational Study of Primitive Emotional Contagion in Dyadic Interactions. <i>IEEE Transactions on Affective Computing</i> , 2020, 11, 258-271.	8.3	14
21	The emotional component of Infant Directed-Speech: A cross-cultural study using machine learning. <i>Neuropsychiatrie De L'Enfance Et De L'Adolescence</i> , 2020, 68, 106-113.	0.2	3
22	Adolescents with borderline personality disorder show a higher response to stress but a lack of self-perception: Evidence through affective computing. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 111, 110095.	4.8	9
23	GAME-ON: A Multimodal Dataset for Cohesion and Group Analysis. <i>IEEE Access</i> , 2020, 8, 124185-124203.	4.2	25
24	AudVowelConsNet: A phoneme-level based deep CNN architecture for clinical depression diagnosis. <i>Machine Learning With Applications</i> , 2020, 2, 100005.	4.4	33
25	TIRL: Enriching Actor-Critic RL with non-expert human teachers and a Trust Model. , 2020, , .		2
26	Integrating an Observer in Interactive Reinforcement Learning to Learn Legible Trajectories. , 2020, , .		1
27	Interactively shaping robot behaviour with unlabeled human instructions. <i>Autonomous Agents and Multi-Agent Systems</i> , 2020, 34, 1.	2.1	8
28	Engagement in Human-Agent Interaction: An Overview. <i>Frontiers in Robotics and AI</i> , 2020, 7, 92.	3.2	51
29	Behavior and interaction imaging at 9 months of age predict autism/intellectual disability in high-risk infants with West syndrome. <i>Translational Psychiatry</i> , 2020, 10, 54.	4.8	10
30	Technology for Assisting During the Comprehensive Geriatric Assessment Process: The ASSESSTRONIC Project. <i>Springer Tracts in Advanced Robotics</i> , 2020, , 229-247.	0.4	0
31	Exploring the Difference between Solving and Teaching in Sensorimotor Tasks. , 2020, , .		2
32	Modeling Dynamics of Task and Social Cohesion from the Group Perspective Using Nonverbal Motion Capture-based Features. , 2020, , .		9
33	The social Simon effect in the tactile sensory modality: a negative finding. <i>Cognitive Processing</i> , 2019, 20, 299-307.	1.4	0
34	Toward a motor signature in autism: Studies from human-machine interaction. <i>L'Encephale</i> , 2019, 45, 182-187.	0.9	9
35	How unitizing affects annotation of cohesion. , 2019, , .		6
36	Region-based facial representation for real-time Action Units intensity detection across datasets. <i>Pattern Analysis and Applications</i> , 2019, 22, 477-489.	4.6	13

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37	Affective and behavioural computing: Lessons learnt from the First Computational Paralinguistics Challenge. <i>Computer Speech and Language</i> , 2019, 53, 156-180.	4.3	29
38	Quantifying patterns of joint attention during human-robot interactions: An application for autism spectrum disorder assessment. <i>Pattern Recognition Letters</i> , 2019, 118, 42-50.	4.2	51
39	A natural interface based on intention prediction for semi-autonomous micromanipulation. <i>Journal on Multimodal User Interfaces</i> , 2018, 12, 17-30.	2.9	3
40	Pre-linguistic infants employ complex communicative loops to engage mothers in social exchanges and repair interaction ruptures. <i>Royal Society Open Science</i> , 2018, 5, 170274.	2.4	16
41	Multimodal Stress Detection from Multiple Assessments. <i>IEEE Transactions on Affective Computing</i> , 2018, 9, 491-506.	8.3	50
42	Distinguish self- and hetero-perceived stress through behavioral imaging and physiological features. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 82, 107-114.	4.8	7
43	Multi-task Feature Learning for EEG-based Emotion Recognition Using Group Nonnegative Matrix Factorization. , 2018, , .		0
44	The Attribution of Emotional State - How Embodiment Features and Social Traits Affect the Perception of an Artificial Agent. , 2018, , .		9
45	ICT and autism care. <i>Current Opinion in Psychiatry</i> , 2018, 31, 474-483.	6.3	28
46	Children Facial Expression Production: Influence of Age, Gender, Emotion Subtype, Elicitation Condition and Culture. <i>Frontiers in Psychology</i> , 2018, 9, 446.	2.1	23
47	Behavioral Own-Body-Transformations in Children and Adolescents With Typical Development, Autism Spectrum Disorder, and Developmental Coordination Disorder. <i>Frontiers in Psychology</i> , 2018, 9, 676.	2.1	16
48	Interpersonal Synchronization, Motor Coordination, and Control Are Impaired During a Dynamic Imitation Task in Children With Autism Spectrum Disorder. <i>Frontiers in Psychology</i> , 2018, 9, 1467.	2.1	35
49	Interfaces haptiques et tactiles pour lâ€™autisme: une revue systématique. <i>Enfance</i> , 2018, NÂ° 1, 65-90.	0.2	3
50	Semantic-Based Interaction for Teaching Robot Behavior Compositions Using Spoken Language. <i>Lecture Notes in Computer Science</i> , 2018, , 421-430.	1.3	3
51	Simon Effect for the Design of Tactile Stimulation. <i>Lecture Notes in Computer Science</i> , 2018, , 69-79.	1.3	0
52	Towards Engagement Models that Consider Individual Factors in HRI: On the Relation of Extroversion and Negative Attitude Towards Robots to Gaze and Speech During a Humanâ€“Robot Assembly Task. <i>International Journal of Social Robotics</i> , 2017, 9, 63-86.	4.6	69
53	Automated Prediction of Extraversion During Humanâ€“Humanoid Interaction. <i>International Journal of Social Robotics</i> , 2017, 9, 385-399.	4.6	13
54	GOLIAH (Gaming Open Library for Intervention in Autism at Home): a 6-month single blind matched controlled exploratory study. <i>Child and Adolescent Psychiatry and Mental Health</i> , 2017, 11, 17.	2.5	18

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55	Exploring the Link between Self-assessed Mimicry and Embodiment in HRI. , 2017, , .		5
56	Comparing Social Science and Computer Science Workflow Processes for Studying Group Interactions. Small Group Research, 2017, 48, 568-590.	2.7	11
57	Fully Automatic Analysis of Engagement and Its Relationship to Personality in Human-Robot Interactions. IEEE Access, 2017, 5, 705-721.	4.2	74
58	Interpersonal Synchrony: From Social Perception to Social Interaction. , 2017, , 202-212.		8
59	EMOEEG: A new multimodal dataset for dynamic EEG-based emotion recognition with audiovisual elicitation. , 2017, , .		4
60	Semantic-based interaction for teaching robot behavior compositions. , 2017, , .		8
61	The influence of individual social traits on robot learning in a human-robot interaction. , 2017, , .		4
62	Investigating the influence of embodiment on facial mimicry in HRI using computer vision-based measures. , 2017, , .		3
63	Gaze Behavior Consistency among Older and Younger Adults When Looking at Emotional Faces. Frontiers in Psychology, 2017, 8, 548.	2.1	24
64	Relations between Automatically Extracted Motion Features and the Quality of Mother-Infant Interactions at 4 and 13 Months. Frontiers in Psychology, 2017, 8, 2178.	2.1	9
65	Social Signal Processing and Socially Assistive Robotics in Developmental Disorders. , 2017, , 389-403.		4
66	GOLIAH: A Gaming Platform for Home-Based Intervention in Autism â€œ Principles and Design. Frontiers in Psychiatry, 2016, 7, 70.	2.6	32
67	ASSP4MI2016: 2nd international workshop on advancements in social signal processing for multimodal interaction (workshop summary). , 2016, , .		0
68	Interaction and behaviour imaging: a novel method to measure motherâ€™infant interaction using video 3D reconstruction. Translational Psychiatry, 2016, 6, e816-e816.	4.8	35
69	Robots learning how and where to approach people. , 2016, , .		34
70	A multimodal and multilevel system for robotics treatment of autism in children. , 2016, , .		18
71	Posture recognition analysis during human-robot imitation learning. , 2016, , .		1
72	On leveraging crowdsourced data for automatic perceived stress detection. , 2016, , .		6

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73	Modeling the dynamics of individual behaviors for group detection in crowds using low-level features. , 2016, , .		8
74	Robots Learn to Recognize Individuals from Imitative Encounters with People and Avatars. Scientific Reports, 2016, 6, 19908.	3.3	44
75	Real-time facial action unit intensity prediction with regularized metric learning. Image and Vision Computing, 2016, 52, 1-14.	4.5	12
76	Trust as indicator of robot functional and social acceptance. An experimental study on user conformation to iCub answers. Computers in Human Behavior, 2016, 61, 633-655.	8.5	137
77	Multimodal Detection of Engagement in Groups of Children Using Rank Learning. Lecture Notes in Computer Science, 2016, , 35-48.	1.3	4
78	Seventh International Workshop on Human Behavior Understanding (HBU 2016). , 2016, , .		0
79	International workshop on social learning and multimodal interaction for designing artificial agents (workshop summary). , 2016, , .		0
80	Training a robot with evaluative feedback and unlabeled guidance signals. , 2016, , .		18
81	Dynamics of Non-Verbal Vocalizations and Hormones during Father-Infant Interaction. IEEE Transactions on Affective Computing, 2016, 7, 337-345.	8.3	18
82	SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports. Springer Tracts in Advanced Robotics, 2016, , 607-622.	0.4	157
83	SyncPy. , 2015, , .		8
84	Compensating for age limits through emotional crossmodal integration. Frontiers in Psychology, 2015, 6, 691.	2.1	22
85	The First International Workshop on Modeling INTERPersonal SynchrONy (INTERPERSONAL 2015). , 2015, , .		0
86	Engagement detection based on mutli-party cues for human robot interaction. , 2015, , .		11
87	A multi-level context-based modeling of engagement in Human-Robot Interaction. , 2015, , .		22
88	Person-specific behavioural features for automatic stress detection. , 2015, , .		20
89	Facial Action Unit intensity prediction via Hard Multi-Task Metric Learning for Kernel Regression. , 2015, , .		30
90	Evaluating the Engagement with Social Robots. International Journal of Social Robotics, 2015, 7, 465-478.	4.6	154

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91	Open Challenges in Modelling, Analysis and Synthesis of Human Behaviour in Humanâ€“Human and Humanâ€“Machine Interactions. Cognitive Computation, 2015, 7, 397-413.	5.2	72
92	Socially Guided XCS. , 2015, , .		3
93	Automatic measure of imitation during social interaction: A behavioral and hyperscanning-EEG benchmark. Pattern Recognition Letters, 2015, 66, 118-126.	4.2	33
94	Predicting Extraversion from Non-verbal Features During a Face-to-Face Human-Robot Interaction. Lecture Notes in Computer Science, 2015, , 543-553.	1.3	14
95	Social signal processing for studying parentâ€“infant interaction. Frontiers in Psychology, 2014, 5, 1437.	2.1	18
96	Robot initiative in a team learning task increases the rhythm of interaction but not the perceived engagement. Frontiers in Neurobotics, 2014, 8, 5.	2.8	27
97	Learning of Social Signatures Through Imitation Game Between a Robot and a Human Partner. IEEE Transactions on Autonomous Mental Development, 2014, 6, 213-225.	1.6	66
98	Intention inference learning through the interaction with a caregiver. , 2014, , .		0
99	Role of Inter-Personal Synchrony in Extracting Social Signatures. , 2014, , .		3
100	Intention prediction approach to interact naturally with the microworld. , 2014, , .		6
101	Potential human reaction aware mobile robot motion planner: Potential cost minimization framework. , 2014, , .		3
102	Infantâ€™s engagement and emotion as predictors of autism or intellectual disability in West syndrome. European Child and Adolescent Psychiatry, 2014, 23, 143-149.	4.7	34
103	Interactive Technologies for Autistic Children: A Review. Cognitive Computation, 2014, 6, 722-740.	5.2	222
104	How children with autism spectrum disorder behave and explore the 4-dimensional (spatial 3D+time) environment during a joint attention induction task with a robot. Research in Autism Spectrum Disorders, 2014, 8, 814-826.	1.5	120
105	On the relevance of using rhythmic metrics and SVM to assess dysarthric severity. International Journal of Biometrics, 2014, 6, 248.	0.4	1
106	IMI2S: A Lightweight Framework for Distributed Computing. Lecture Notes in Computer Science, 2014, , 267-278.	1.3	6
107	Why Synchrony Matters during Mother-Child Interactions: A Systematic Review. PLoS ONE, 2014, 9, e113571.	2.5	283
108	Biometric Applications Related to Human Beings: There Is Life beyond Security. Cognitive Computation, 2013, 5, 136-151.	5.2	52

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109	Self-talk Discrimination in Human-Robot Interaction Situations for Supporting Social Awareness. International Journal of Social Robotics, 2013, 5, 277-289.	4.6	10
110	Assessment of the communicative and coordination skills of children with Autism Spectrum Disorders and typically developing children using social signal processing. Research in Autism Spectrum Disorders, 2013, 7, 741-756.	1.5	22
111	Designing an assistive robot for older adults: The ROBADOM project. Irbm, 2013, 34, 119-123.	5.6	37
112	Oxytocin shapes parental motion during father-infant interaction. Biology Letters, 2013, 9, 20130828.	2.3	50
113	Motherese in Interaction: At the Cross-Road of Emotion and Cognition? (A Systematic Review). PLoS ONE, 2013, 8, e78103.	2.5	205
114	Locating facial landmarks with binary map cross-correlations. , 2013, , .		3
115	Course of maternal prosodic incitation (motherese) during early development in autism. Interaction Studies, 2013, 14, 480-496.	0.6	10
116	Multimodal People Engagement with iCub. Advances in Intelligent Systems and Computing, 2013, , 59-64.	0.6	6
117	How Social Signal Processing (SSP) Can Help Assessment of Bonding Phenomena in Developmental Psychology?. Smart Innovation, Systems and Technologies, 2013, , 345-356.	0.6	2
118	Tracking Posture and Head Movements of Impaired People During Interactions with Robots. Lecture Notes in Computer Science, 2013, , 41-49.	1.3	1
119	Do Parentese Prosody and Fathers' Involvement in Interacting Facilitate Social Interaction in Infants Who Later Develop Autism?. PLoS ONE, 2013, 8, e61402.	2.5	68
120	Social Coordination Assessment: Distinguishing between Shape and Timing. Lecture Notes in Computer Science, 2013, , 9-18.	1.3	2
121	Robust continuous prediction of human emotions using multiscale dynamic cues. , 2012, , .		80
122	An embedded 3D human motion capture using the prediction provided from a walking model. , 2012, , .		0
123	Interpersonal Synchrony: A Survey of Evaluation Methods across Disciplines. IEEE Transactions on Affective Computing, 2012, 3, 349-365.	8.3	345
124	Multimodal human detection and fuzzy decisional engine for interactive behaviors of a mobile robot. , 2012, , .		1
125	Perception and human interaction for developmental learning of objects and affordances. , 2012, , .		12
126	Learning postures through an imitation game between a human and a robot. , 2012, , .		2

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127	Exploring Multimodal Social-Emotional Behaviors in Autism Spectrum Disorders: An Interface between Social Signal Processing and Psychopathology. , 2012, , .		15
128	Automatic Imitation Assessment in Interaction. Lecture Notes in Computer Science, 2012, , 161-173.	1.3	14
129	An embedded human motion capture system for an assistive walking robot. , 2011, 2011, 5975439.		4
130	Differential language markers of pathology in Autism, Pervasive Developmental Disorder Not Otherwise Specified and Specific Language Impairment. Research in Autism Spectrum Disorders, 2011, 5, 1402-1412.	1.5	52
131	Do Parents Recognize Autistic Deviant Behavior Long before Diagnosis? Taking into Account Interaction Using Computational Methods. PLoS ONE, 2011, 6, e22393.	2.5	101
132	Supervised and semi-supervised infant-directed speech classification for parent-infant interaction analysis. Speech Communication, 2011, 53, 1149-1161.	2.8	10
133	Automatic Intonation Recognition for the Prosodic Assessment of Language-Impaired Children. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1328-1342.	3.2	40
134	Computerized home video detection for motherese may help to study impaired interaction between infants who become autistic and their parents. International Journal of Methods in Psychiatric Research, 2011, 20, e6-18.	2.1	43
135	Characterization of coordination in an imitation task. , 2011, , .		4
136	Automatic recognition of coordination level in an imitation task. , 2011, , .		1
137	Understanding Parent-Infant Behaviors Using Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2011, , 436-447.	1.3	3
138	On the Perception of Emotional "Voices": A Cross-Cultural Comparison among American, French and Italian Subjects. Lecture Notes in Computer Science, 2011, , 368-377.	1.3	4
139	Automatic gait characterization for a mobility assistance system. , 2010, , .		8
140	Voice and graphical -based interfaces for interaction with a robot dedicated to elderly and people with cognitive disorders. , 2010, , .		25
141	Emotional Speech Classification Based on Multi View Characterization. , 2010, , .		9
142	What studies of family home movies can teach us about autistic infants: A literature review. Research in Autism Spectrum Disorders, 2010, 4, 355-366.	1.5	100
143	Multimodal coordination. , 2010, , .		26
144	Time-Frequency Features Extraction for Infant Directed Speech Discrimination. Lecture Notes in Computer Science, 2010, , 120-127.	1.3	3

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145	Generating Robot/Agent backchannels during a storytelling experiment. , 2009, , .		17
146	Special issue on non-linear and non-conventional speech processing. Speech Communication, 2009, 51, 713.	2.8	0
147	Time-Scale Feature Extractions for Emotional Speech Characterization. Cognitive Computation, 2009, 1, 194-201.	5.2	24
148	Maximum likelihood linear programming data fusion for speaker recognition. Speech Communication, 2009, 51, 820-830.	2.8	14
149	Optimizing feature complementarity by evolution strategy: Application to automatic speaker verification. Speech Communication, 2009, 51, 724-731.	2.8	18
150	Investigation on LP-residual representations for speaker identification. Pattern Recognition, 2009, 42, 487-494.	8.1	34
151	Emotional speech characterization based on multi-features fusion for face-to-face interaction. , 2009, , .		4
152	Hilbert-Huang transform based physiological signals analysis for emotion recognition. , 2009, , .		65
153	A new approach for motherese detection using a semi-supervised algorithm. , 2009, , .		5
154	Automatic Motherese Detection for Face-to-Face Interaction Analysis. Lecture Notes in Computer Science, 2009, , 248-255.	1.3	8
155	Maximising Audiovisual Correlation with Automatic Lip Tracking and Vowel Based Segmentation. Lecture Notes in Computer Science, 2009, , 65-72.	1.3	11
156	Prosody Modelling of Speech Aphasia: Case Study of Algerian Patients. , 2008, , .		0
157	Motherese detection based on segmental and supra-segmental features. , 2008, , .		10
158	Exploiting a Vowel Based Approach for Acted Emotion Recognition. Lecture Notes in Computer Science, 2008, , 243-254.	1.3	20
159	Complementary Features for Speaker Verification Based on Genetic Algorithms. , 2007, , .		6
160	Multi Filter Bank Approach for Speaker Verification Based on Genetic Algorithm. Lecture Notes in Computer Science, 2007, , 105-113.	1.3	5
161	Nonlinear Predictive Models: Overview and Possibilities in Speaker Recognition. Lecture Notes in Computer Science, 2007, , 170-189.	1.3	2
162	Discriminant neural predictive coding applied to phoneme recognition. Neurocomputing, 2004, 56, 141-166.	5.9	19

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163	The Modular Neural Predictive Coding architecture. , 0, , .		1
164	The INTERSPEECH 2013 computational paralinguistics challenge: social signals, conflict, emotion, autism. , 0, , .		341
165	Automatic Analysis of Typical and Atypical Encoding of Spontaneous Emotion in the Voice of Children. , 0, , .		22
166	A new nonlinear feature extraction algorithm for speaker verification. , 0, , .		6
167	A vowel based approach for acted emotion recognition. , 0, , .		6
168	Novel metrics of speech rhythm for the assessment of emotion. , 0, , .		5
169	Embodied Virtual Patients as a Simulation-Based Framework for Training Clinician-Patient Communication Skills: An Overview of Their Use in Psychiatric and Geriatric Care. Frontiers in Virtual Reality, 0, 3, .	3.7	4