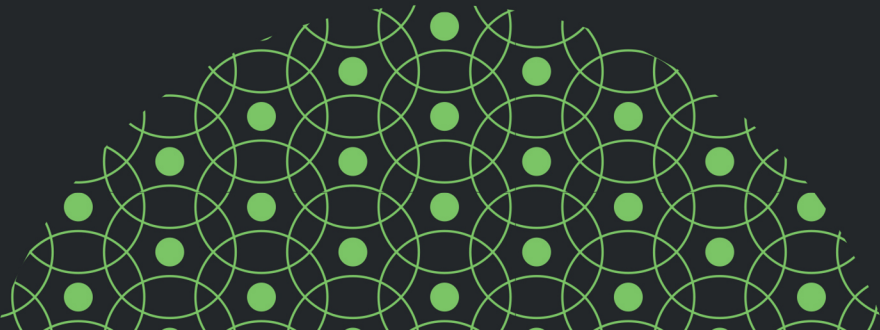




EMERALD POINTS

**INTRODUCING
THERAPEUTIC
ROBOTICS FOR
AUTISM**

RAHEEL NAWAZ
SARA ALI



INTRODUCING THERAPEUTIC ROBOTICS FOR AUTISM

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INTRODUCING THERAPEUTIC ROBOTICS FOR AUTISM

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INVESTOR IN PEOPLE

To Zuna, my soulmate!
(Professor Raheel Nawaz)

To Najla Ali, my mother!
(Dr Sara Ali)

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LIST OF ABBREVIATIONS

AAC	Augmentative and Alternative Communication
ABA	Applied Behaviour Analysis
ADL	Activities of Daily Life
ADDM	Autism and Developmental Disabilities Monitoring
ADI-R	Autism Diagnostic Interview-Revised
ADOS	Autism Diagnostic Observation Schedule
ADOS-G	Autism Diagnostic Observation Scheduled – Generic
AI	Artificial Intelligence
ASD	Autism Spectrum Disorder
ASSQ	Autism Spectrum Screening Questionnaire
AT	Assistive Technology
BCI	Brain–Computer Interface
CARS	Childhood Autism Rating Scale
CBT	Cognitive Behavioural Therapy
CDC	Centers for Disease Control and Prevention
CHAT	Checklist for Autism in Toddlers
DSM	Diagnostic and Statistical Manual of Mental Disorders
EEG	Electroencephalogram
ESDM	Early Start Denver Model
GUI	Graphical User Interface
hHRL	hierarchical Human–Robot Learning
HRI	Human–Robot Interaction
LTM	Least-to-Most
ML	Machine Learning
MMR	Measles-Mumps-Rubella
M-CHAT	Modified Checklist for Autism in Toddlers
OT	Occupational Therapy
PC	Personal Computer
PDD	Pervasive Developmental Disorder
PDD-NOS	Pervasive Developmental Disorder Not Otherwise Specified
RAAT	Robot-Assisted Autism Therapy

RAT	Robot-Assisted Therapy
SAR	Socially Assistive Robots
SCQ	Social Communication Questionnaire
SDGs	Sustainable Development Goals
SGD	Speech Generating Device
SRS	Social Responsiveness Scale
TEACCH	Treatment and Education of Autistic and Related Communication Handicapped Children
TD	Typically Developed
VR	Virtual Reality
VSD	Visual Scene Display
WOZ	Wizard of Oz
WHO	World Health Organization

ABOUT THE AUTHORS

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