آزمایشگاه ملی نقشه‌برداری مغز
NBML
National Brain Mapping Lab

ششمین سمپوزیوم تازه‌های نقشه‌برداری مغز ایران

6th Iranian Symposium on Brain Mapping Updates

ISBM 2022

چهارشنبه، پنجشنبه، جمعه، ۱۵ الی ۱۷ تیر ۱۴۰۱ | 6-7-8 July, 2022.

IN THE NAME OF GOD

National Brain Mapping Laboratory

Convergent Development
of Science and Technology
in Brain Mapping

www.nbml.ir

Chairman's Message

The sixth Symposium on Brain Mapping Updates in Iran, as the biggest brain mapping event in the country, has provided a unique opportunity for researchers and international scientist in this field so they can learn about the recent achievements with the the presence of foreign and Internal professors in three days,6 to 8 july 2022 and finally use them in their research.

After 2 years of holding the symposium virtually,this year a platform was provided so that we can hold a part of this event in person.

On the third day of this event 5 panels were held with the topics of pre-surgical, treatment of addiction (drug abuse), Diagnosis and treatment of central nervous system trauma,Diagnostic challenges in cognitive disorders of the elderly and diagnostic and treatment challenges in neurological disorders in children" will be held.

On this day, in addition to the fact that the participants can benefit from this panel in person a platform has been prepared for the virtual presentation of these panels so that those interested and researchers who can not attend they can participate in these panels through vitrual means.

In each of the panels, meetings are held between companies active in the field of brain mapping and related associations to examine the challenges in each of the fields related to joint activity.

In the sixth year of holding this eventIn addition to receiving presented articles In line with the clinical value creation of the researches, we decided to appreciate the researches in the field of brain mapping that lead to the creation or improvement of a clinical service.

It goes without saying that improving the position of Iran at the national, regional, and international levels and strengthening the competitiveness of researchers are among the main goals of the National Brain Mapping Laboratory. In this regard, this national institute is doing all its efforts in updating and raising the level of awareness of researchers in the country.

In the end, it is hoped that the National Brain Mapping Laboratory can contribute to providing services as well as convergence and synergy in the knowledge of cognitive sciences, especially brain mapping.

In advance we really thank all of you dear ones and Laboratory companions

Dr. Mohammad-Reza Ay

Director of NBML

Executive Chair's Message

With the help of God, the Compassionate, we will hold the biggest Brain Mapping Conference in the country.

Aiming at exchanging knowledge among researchers and developing, promoting as well as introducing new and top technologies and findings in this field, the 6th Symposium on National Brain Mapping Updates (ISBM2022), as the most important event of the conference, will be hold virtually and face-to-face on July 6, 7 and 8, 2022 for 3 days by a laudable management and planning of the creative and studious team of the NBML.

In cooperation with eminent professors and medical and scientific associations, five clinical panels focusing on Cognitive Disorders in Old People, Neurodevelopmental Disorders in Children, Traumatic Injuries of the Central Nervous System, Drug Abuse and pre-surgical planning will be presented face-to-face in the third day (July 08). Also 33 illustrious lecturers in this field participate in the event.

Applying new idea this year, we have provided a unique opportunity for the company active in the field of brain mapping to meet the representatives of several different associations, so that parties can share their view and idea, in line with the knowledge-based activities, and enjoy the results obtained from the meetings arranged by NBML in the third day for them. 14 knowledge and private companies with 25 medical associations will attend in the meetings.

In the closing ceremony, the awards of the winners of three competition held by NBML including "*The Fifth National Brain-Computer Interface (BCI) Competition Focusing on Auditory Attention; "The Second National fNIRS Data Analysis Competition Focusing on Brain-Computer Interface Systems"; and "The Fifth National Competition on Functional Magnetic Resonance Imaging Data Analysis Focusing on Computer-Aided Detection (CAD) Systems*" will be presented.

Also, the top 4 active researchers who have used the services of the NBML for their research will be appreciated in both clinical and engineering groups.

The total number of participants in ISBM2022 is more than 700 people, promising a bright future for the country in this field.

Dr. Hossein Ghadiri

Scientific Chair's Message

I am delighted and honored to welcome all participants to the Iranian Symposium of Brain Mapping Updates ISBM 2022. This is the sixth symposium of ISBM series, which will be held on 6-8 July 2022 by National Brain Mapping Lab (NBML).

In the ISBM 2022 we have 10 keynote talks within two days which cover versatile subjects in the field of brain mapping including: brain signals and image processing, functional MRI (fMRI), functional Near Infra Red Spectroscopy (fNIRS), neuropsychiatric implications of COVID-19, non-invasive brain stimulation (TMS, TCS), Positron Emission Tomography (PET), clinical applications of brain mapping on epilepsy, and basic and personalized neuroscience.

ISBM2022 received about 60 abstract and extended abstracts, which were evaluated in scientific committee (15 faculty members). Seventeen (17) extended abstract were accepted for oral presentation and 3 abstracts from clinically oriented researches were selected for appreciation. This appreciation is aimed to encourage researchers to target solving the real world clinical problems and enhance the diagnosis or treatment procedures by brain mapping approaches and facilities.

NBML also run three national competitions in the fields of fNIRS, fMRI, and Brain Computer Interface (BCI). In the fNIRS competition, the research teams classified fNIRS signal to help people with movement related disorders, and in the fMRI competition they applied computer aided diagnosis to use the resting state fMRI for detection of Autism spectrum disorder. The BCI challenge was focused on the EEG signals of auditory attention.

Finally I would like to express my appreciations to all keynote speakers, panel moderators and speakers, scientific committee, reviewers, authors of submitted papers, executive committee, and everyone who help in the symposium and wish health and success for everybody.

With Best regards

Dr. Gholam-Ali Hossein-Zadeh

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Iranian Child & Adolescent Neurology Society
2000 ۱۳۷۹

Iranian Neuroscience Society
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۱۳۹۱ 2012

انجمن فیزیک پزشکی ایران
IRANIAN ASSOCIATION OF MEDICAL PHYSICIST

Iranian Society of Radiology
انجمن رادیولوژی ایران
1966 ۱۳۴۵

تاسیس
۱۳۷۴
انجمن صرع ایران
حمایت از بیماران مبتلا به صرع

انجمن پزشکی روان تنی ایران

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IRANIAN PSYCHOLOGICAL ASSOCIATION
۱۳۷۴ 1995

Iranian Society of
BioMedical Engineering
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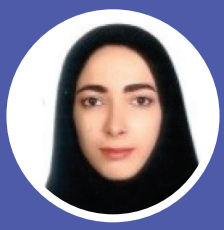

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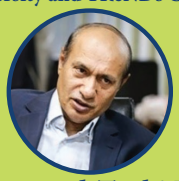

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Symposium Speech Topics

The Speakers List (Alphabetical by Surname)

Speaker	Title
Dr. Reza Ebrahimpour	Speed-accuracy-confidence trade-off in communication of confidence
Dr. Hamed Ekhtiari	Personalized Neuroscience: Hopes and Challenges
Dr. Hossein Ghadiri	Applying the principles of choice theory to strengthen entrepreneurial behavior: with emphasis on opportunities in the field of brain mapping
Dr. Seyed Sohrab Hashemi Fesharaki	Seizure Semiology and the new International League Against Epilepsy (ILAE) Classification
Dr. Armin Iraji	Dynamic functional connectivity: Data-driven approaches and clinical applications

Symposium Speech Topics

The Speakers List (Alphabetical by Surname)

Speaker	Title
Dr. Anahita Khorrami	The state of the art, Attract and link Transcranial electric stimulation (tES) and NeuroImaging: new view of current and future in basic and clinical neuroscience
Dr. Javad Safaie	Brain illumination by "fNIRS"
Dr. Manouchehr Seyedi Vafaee	Age-related changes in cerebral blood flow, glucose metabolism, and amyloid plaques density in AD signature regions
Dr. Hamid Soltanian Zadeh	Evaluation of TMS-Induced Functional Connectivity Alterations Using rs-fMRI
Dr. Vicky Yamamoto	Neuropsychiatric Implication of COVID-19

Dr. Reza Ebrahimpour

***Academic Rank/ Position*: Full Professor**
***Affiliation*: Computer Engineering Faculty, Shahid Rajaee teacher Training University And School of Cognitive Sciences, IPM**

Reza Ebrahimpour is a professor at the department of computer engineering, Shahid Rajaee Teacher Training University, Tehran, Iran. He obtained Ph.D. degree in the field of Cognitive Neuroscience from the SCS, IPM, Tehran, Iran in July 2007. Dr. Ebrahimpour is the author or co-author of more than 100 international journal and conference publications in his research areas, which include Cognitive and Systems Neuroscience, Human and Machine Vision, Decision Making and Object Recognition.

Lecture title:

Speed-accuracy-confidence trade-off in communication of confidence

Private, subjective beliefs about uncertainty have been found to have idiosyncratic computational and neural substrates yet, humans share such beliefs seamlessly and cooperate successfully.

Bringing together decision making under uncertainty and interpersonal alignment in communication, in a discovery plus pre-registered replication design, we examined the neuro-computational basis of the relationship between privately-held and socially-shared uncertainty.

Examining confidence-speed-accuracy trade-off in uncertainty-ridden perceptual decisions under social vs isolated context, we found that shared (i.e., reported confidence) and subjective (inferred from pupillometry) uncertainty dynamically followed social information. An attractor neural network model incorporating social information as top-down additive input captured the observed behaviour and spontaneously demonstrated the emergence of social alignment in virtual dyadic simulations. Electroencephalography showed that social exchange of confidence modulated the neural signature of perceptual evidence accumulation in the central parietal cortex and produced a sustained top-down flow of information from prefrontal to parietal cortex. Our findings offer a neural population model for interpersonal alignment of shared beliefs.

Dr. Hamed Ekhtiari

***Academic Rank/Position*: Director of Neuroscience-informed Interventions for Addiction Medicine (NIAM) Lab**
***Affiliation*: Laureate Institute for Brain Research, Tulsa, Oklahoma, US.**

Dr. Ekhtiari's lab is focused to reshape the future of addiction treatment using brain imaging in combination with non-invasive brain stimulation technologies and cognitive training. Dr. Ekhtiari is director of the international network of tES/TMS trials for addiction medicine (INTAM). INTAM with over 50 lab members promotes international collaborations to increase research quality and implementation of non-invasive brain stimulation technologies in addiction medicine. Dr Ekhtiari also serves as the co-chair of the neuroscience interest group at the international society for addiction medicine (ISAM-GEN) and directs the brain awareness for recovery initiative (BARI). BARI materials are translated and culturally adopted by scientific authorities in 22 languages in 5 continents so far. Dr. Ekhtiari is the secretary of the Global Expert Network at the International Society for Addiction Medicine (ISAM GEN). ISAM GEN supports global surveys among addiction medicine professionals.

Lecture title:

Personalized Neuroscience: Hopes and Challenges

The development process for our brains is designed to diversify us as human fellows. This neurodiversity has been undermined for decades with methods that try to model an average brain. New developments in neuroscience methods provide opportunities to take into account individual variations in brain structure and function and model variance instead of mean. In this talk, I'm going to introduce and discuss some of these methodological advances. I will also present new evidence on how these individualization methodologies can inform more effective treatments for brain and mental health disorders.

Dr. Hossein Ghadiri

***Academic Rank/Position*: Associate Professor**
***Affiliation:* Medical Physics and Biomedical Engineering Department Tehran University of Medical Sciences**

Hossein Ghadiri is Associate Professor of Medical Physics in Tehran University of Medical Sciences. His research interests include medical imaging, image analysis, and the use of artificial neural networks in computer-aided diagnosis. Ghadiri is the Executive Vice President of the National Brain Mapping Laboratory and the Managing Director of a knowledge-based company, which produces in vivo and NDT micro-CT scanners.

Lecture title:

Applying the principles of choice theory to strengthen entrepreneurial behavior: with emphasis on opportunities in the field of brain mapping

Entrepreneurship is an important and inexhaustible resource of all human societies. A resource that is related to the amount of human creativity. On the one hand it is cheap and on the other thirty it is very valuable and inexhaustible. The approach of the countries of the world to the issue of entrepreneurship and its development in recent decades has led to a wave of activities in this field to the extent that different countries have paid special attention to it to overcome

various economic and social problems. The solution is to develop an entrepreneurial culture, support entrepreneurs and entrepreneurship education.

An entrepreneur has a new idea and thought that introduces a new product or service to the market by creating a business and mobilizing resources, which is also associated with financial and social risk.

Research has shown that teaching choice theory significantly reduces individual and social negligence. Developed by psychiatrist William Glasser, Choice Theory states humans are motivated by a never-ending quest to satisfy 5 basic needs woven into our genes: to love and belong, to be powerful, to be free, to have fun and to survive. Specifically: Survival, belonging, power, freedom, and fun.

Today, brain mapping is known as an active research phenomenon in Iran and the world, but as a technological subject is an emerging phenomenon. Knowing the basics of entrepreneurship and applying the principles of choice theory to reinforce entrepreneurial behavior and introducing it to brain mapping professionals with the aim of motivating them, is the main purpose of this lecture.

Dr. Seyed Sohrab Hashemi-Fesharaki

***Academic Rank/Position*: Pars General Hospital Director of Comprehensive epilepsy program**
***Affiliation:* Neurology**

Dr. Seyed Sohrab HashemiFesharaki received his MD from Isfahan university, and he is the board-certified neurologist from Tehran University. Then he completed the epilepsy training course at the institute of neurology at the McGill University, Montreal, Canada.

Dr. HashemiFesharaki has started his research on epilepsy from 2007, and he was the founding of the epilepsy department of Pars General hospital in 2010. Currently, he is a neurologist at Pars General hospital and the director of comprehensive epilepsy program.

Lecture title:

Seizure Semiology and the new International League Against Epilepsy (ILAE) Classification

Semiology of seizures are the manifestation of epilepsy due to altered electrical activity in the affected part of the brain; these phenomena can be motor, behavioral or subjective, with or without altered consciousness. Careful analysis of semiology, using both the patient's history and data from video-telemetry, can help to localize seizure onset. This is particularly important in presurgical epilepsy assessment, something that should be considered for everyone with medically refractory focal epilepsies.

Clinicians also need to be familiar with the spectrum of epilepsy semiology in order to make the correct diagnosis and to differentiate epileptic seizures from dissociative events, syncope and other non-epileptic events. The symptomatogenic zone is where symptoms and clinical signs originate; it is usually, but not always, close to the epileptogenic zone, which is the part of the brain that must be removed to render the patient seizure free, and is the objective of epilepsy surgery. The seizure semiology can, therefore, be generated by both activation of brain areas, which occurs slowly, and by the disruption of brain networks, which occurs more rapidly.

It is not surprising that the rate of a seizure's progression depends on several factors, foremost among which is localization. For example, temporal lobe seizures, which depend mainly on activation of brain areas, evolve more slowly, whereas frontal lobe seizures, which may depend on disinhibition, propagate quickly.

While certain semiology, in particular those that involve activation of eloquent brain areas, are pathognomonic (such as focal motor seizures that arise from contralateral primary motor cortex) other signs are of less localizing value, for example, automotor seizures that can arise from different brain regions.

In this presentation I try to illustrate these focal and lateralizing signs and explain new ILAE classification with abundant examples as well as comparing this classification with previous ILAE classification and multiaxial classification.

Dr. Armin Iraji

***Academic Rank/Position*: Research Scientist**
***Affiliation*: Tri-Institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Georgia State University, Georgia Institute of Technology, and Emory University, Atlanta, GA, US**

Dr. Armin Iraji received his Ph.D. degree in Biomedical Engineering (BME) with dual-title Medical Imaging (MI) from Wayne State University (WSU) in 2017. He completed his postdoctoral training in the field of "Neuroimaging Data Analysis" with Dr. Vince Calhoun and started his position as a research scientist at the Tri-Institutional (GSU, Georgia Tech, Emory) Center for Translational Research in Neuroimaging and Data Science (TReNDS) in 2019. Dr. Iraji will start his new position as an assistant professor in the Computer Science and Psychology departments at Georgia State University (GSU) in August 2022. Dr. Iraji's research focuses on developing unimodal and multimodal data-driven approaches to analyze brain spatiotemporally dynamic patterns across multiple spatial and temporal scales.

In addition, Dr. Iraji is one of the founders of the Brain Space Initiative (http://brainspaceinitiative.github.io/). The BSI provides a freely available, equal opportunity resource for brain research, facilitated through virtual collaborative learning environments beyond individuals' teams, allowing researchers and students to interact with one another on a daily basis.

Lecture title:

Dynamic functional connectivity:
Data-driven approaches and clinical applications

Given the dynamic nature of the brain, there is a growing interest in moving beyond a "static" functional connectivity (FC), characterizing functional interactions using entire fMRI time series, and evaluating time-varying functional interactions.

In this talk, I review several topics to provide an overview of dynamic functional connectivity. The first part will introduce whole-brain dynamic functional network connectivity (dFNC) and explain commonly used terms in dFNC studies. I will introduce approaches built upon the sliding-windowed technique as the most widely used technique to study brain dynamic functional connectivity. I will explain the difference between various types of brain dynamics. The last part of this talk will be devoted to the interpretation and clinical applications of dFNC. While I mainly discuss dFNC findings from fMRI data, the concept and approaches can be applied in other brain time series (e.g., MEG, EEG). The target audience of this talk are students and researchers interested in functional connectivity.

Dr. Anahita Khorrami

Academic Rank/ Position: **Independent researcher and instructor of ICSS and Brain and Cognition Clinic**
***Affiliation*: ICSS and Brain and Cognition Clinic**

I am Dr Anahita Khorrami Banadaki, MD from medical university of Iran, PhD of Cognitive Neuroscience from ICSS, Master of medical IT from Amir Kabir university and fellowship of neuropsychology.Now as an instructor I am teaching in ICSS and brain and cognition clinic for Cognitive rehabilitation. In general neurodevelopment attention and perception specifically social neuroscience is my favourite. ERP, Eye Tracking, Brain stimulation (tES) and behavioural neuroscience, and Neuromarket are my field of research. I am independent researcher but I was head of education and research of Brain and cognition clinic from 2016-2020.

Lecture title:

The state of the art, Attract and link Transcranial electric stimulation (tES) and NeuroImaging: new view of current and future in basic and clinical neuroscience

transcranial electric stimulation (tES) of the brain has attracted an increased interest in the scientific community, manipulate brain electric or magnetic activity to study brains' functional role, purposeful modulation of brain function and behaviour, with all associated implications for evidence--based use of this technique in a clinical context. Comprehensively, we do know very well about its mechanism. up--to--date overview of the state--of--the--art in combining tES and neuroimaging could the way to show the answers for challenges such as artifact cancellation or anatomical variability. Besides promising to advance basic neuroscience, this combination may change previous conceptions about how electric or magnetic stimulation acts on the brain.

Dr. Javad Safaie

***Academic Rank/Position*: Assistant Professor**
***Affiliation*: Biomedical Engineering, Electrical Engineering Department, Faculty of Engineering, Ferdowsi University of Mashhad**

Javad Safaie received the B.Sc. degree in electronic engineering from the Iran University of Science and Technology, Tehran, Iran, in 1998, the M.Sc. degree in electronic engineering from the K.N. Toosi University of Technology, Tehran, in 2000, and the Ph.D. degree in neuroscience biomedical engineering from the Université de Picardie Jules Verne, France, in 2012. From 2000 to 2009, he worked as a developer and a design engineer with NTA Co. and a researcher with the biomedical laboratory, K.N. Toosi University of Technology. He has developed numerous projects in the electronic and bio-instrumentation field in this period. In 2009, he joined the GRAMFC Inserm U1105 research group, Amiens, France. From 2012 to 2014, he continued his corporation with the GRAMFC as a Postdoctoral position. He has been with the biomedical branch, electrical engineering group, Ferdowsi University of Mashhad, since 2014.

Lecture title:

Brain illumination by "fNIRS"

Functional Near Infrared Spectroscopy (fNIRS) is an optical imaging technology that can measure hemodynamic responses related to neural activity in the brain or muscle tissue. This method measures the absorption of light in the near-infrared spectrum (700 to 900nm) by oxygenated and deoxygenated hemoglobin in the blood and, similar to functional magnetic resonance imaging (fMRI), provides important information about functional activity of tissue. In this method, a beam of light is irradiated to the surface of the skin. Due to the absorption coefficients and scattering of the tissue, part of the photons of the emitted light are absorbed and part are also scattered. By measuring the changes in the characteristics of the reflected light waves from the target tissue, it is possible to evaluate the changes in the concentration of chromophores in the brain or muscle tissue, and consequently its hemodynamic activity.

Dr. Manouchehr Seyedi Vafa

***Academic Rank/Position*: Ph.D., DMSc/Associate Professor**
***Affiliation*: University of Southern Denmark and Odense University Hospital**

Manouchehr S. Vafaee is an Associate Professor of the Dept. of Psychiatry and Clinical Research of the University of Southern Denmark and Nuclear Medicine Dept. of Odense University Hospital. He has an MSc. in Medical Physics and a Ph.D. in Neuroscience both from the McGill University of Canada. He has done a postdoctoral fellowship in neurodegenerative diseases at the Emory University in USA.

He has acquired neuroimaging skills in PET/MRI at the Montreal Neurological Institute and his main research areas of interests are AD and ASD/ADHD disorders. He is currently the coordinator of the Psychiatric Imaging Laboratories (PIL).

Lecture title:

Age-related changes in cerebral blood flow, glucose metabolism, and amyloid plaques density in AD signature regions

Purpose: We intended to test a chain of hypotheses that link a multitude of neurobiological mechanisms into a single concept of brain aging and by that to investigate the process of healthy aging by measuring the neurophysiological parameters affected during the process of aging.

Hypothesis: Glucose metabolism decline in healthy aging is associated with age-dependent deposition of amyloid plaques and that age-related reductions of regional cerebral glucose metabolism (CMRglc) are associated with decreased aerobic glycolysis and cerebral blood flow (CBF). Furthermore, that amyloid plaque deposition is negatively correlated with white matter integrity.

Introduction: Alzheimer´s disease (AD) most commonly affects older adults and worsens with the age. In the context of studying the physiological parameters affected in AD, we designed the study of healthy aging which is the gradual process of natural changes in physiological parameters that start at the onset of adulthood.

Materials and methods: 90 (50 reported) healthy subjects aged from 20-80 years in 6 groups of aging. underwent two PET/MRI scans with the state-of-art SIGNA PET/MRI tomography. We first measured the amyloid plaque density with 11C-PiB tracer which was followed by a 18F-FDG scan for the measurements of CMRglc. CBF was also measured by means of ASL sequences acquired by MRI.

Results: CBF and CMRglc declined in the hippocampus, MTL, PFC, precuneus PCC and cingulate gyrus, (known as parts of the so-called AD signature regions), as well as default mode network, as a function of aging while amyloid plagues density increased as a function of aging in the same regions.

Conclusions: During the process of healthy aging, the main neuronal energy source i.e., glucose and most likely oxygen which are supplied by blood flow decline while the density of AD related protein amyloid increases with a certain stoichiometry. We hope our follow-up study will demonstrate the disturbance in that stoichiometry in healthy subjects is indeed the in main reason for the pathogenesis of AD.

Dr. Hamid Soltanian Zadeh

***Academic Rank/Position*: Professor**
***Affiliation*: University of Tehran**

Hamid Soltanian-Zadeh, PhD is Professor of Electrical and Biomedical Engineering at University of Tehran. His research interests include medical imaging, signal and image analysis, pattern recognition, and neural networks. Prof. Soltanian-Zadeh is fellow of SPIE, senior member of IEEE, and member of ISMRM, ISBME, and ISMVIP. He has served on technical committees of numerous conferences and review boards of over 60 scientific journals.

He is an associate member of Iranian Academy of Sciences (IAS) and a reviewer of grant applications at National Institutes of Health (NIH), National Science Foundation (NSF), American Institute of Biological Sciences (AIBS), and international funding agencies.

Lecture title:

Evaluation of TMS-Induced Functional Connectivity Alterations Using rs-fMRI

Functional connectivity of brain regions may be used as biomarkers of mental disorders like Major Depressive Disorder (MDD). In order to reduce the impact of the disease and improve the brain function, Transcranial Magnetic Stimulation (TMS) has been recently used as a non-invasive technique to stimulate a specific brain region and enhance its neural activity. TMS has shown diagnostic and therapeutic potential in the central nervous system with a wide variety of disease states in neurology and mental health. TMS treatment changes functional connectivity of the brain regions. In this talk, I will present recent studies dealing with the application of TMS to MDD and evaluation of the brain functional connectivity before and after the application of TMS, through the acquisition and analysis of resting state functional Magnetic Resonance Imaging (rs-fMRI) data.

Dr. Vicky Yamamoto

***Academic Rank/ Position*: Senior Research Scientist**
***Affiliation*: USC-Norris Comprehensive Cancer Center; Society for Brain Mapping & Therapeutics, Los Angeles, California, USA**

Dr. Yamamoto is a cancer scientist at USC Keck School of Medicine and Norris Comprehensive Cancer Center with more than 16 years of research experience ranging from developmental neurobiology and stem cell to molecular targeted therapy. Prior to joining USC, she worked at Mount St. Mary's University, Cedars-Sinai Medical Center, and California Institute of Technology.
She has significant teaching experience and mentored numerous students and fellows. Dr. Yamamoto is a founding member of the Society for Brain Mapping & Therapeutics (SBMT) and currently serving as the executive director and was recently elected as the president of the 2023 SBMT Meeting.

Lecture title:

Neuropsychiatric Implication of COVID-19

COVID-19 is a severe infectious disease that has claimed more than 6 million lives and infected 550 million worldwide. SARS-CoV-2 virus may cause hemorrhagic and immunologic responses, which impact virtually all organs, including the lungs, heart, kidneys, and brain. From my recent published review of more than 420 references from online databases, including, PubMed, Google Scholar, it has become clear that severe COVID-19 could impair neuropsychiatric function. Moreover, the elderly population with Alzheimer's disease and dementia appear to be at a higher risk. Presumably, most of the COVID-19 related neuropsychiatric dysfunction may not cause directly by the virus itself but is caused by aberrant immunologic responses. However, there are evidences to show that SARS-CoV-2 viral protein or RNA are present in the brain of the patients with severe COVID-19 cases. With the continued spread of newly emerging variants/ sub-variants and re-infection, as well as the recent evidence that even mild COVID-19 may cause neuro-psychiatric dysfunction and long-COVID syndromes, we conclude that the mental health and illness aspects of COVID-19 are among the most important side effects of this pandemic and that this requires a national plan for prevention, diagnosis, and treatment.

Symposium Schedule

Day 1: 6 July 2022

Local (Tehran) time 6 July (15 tir)	Speaker
8:45 - 09:00	Opening
09:00 - 09:55	Dr. Vicky Yamamoto
10:00 - 10:55	Dr. Hamid Soltanian-Zadeh
11:00 - 11:55	Dr. Manouchehr Seyedi Vafaee
12:00 - 12:55	Dr. Seyed Sohrab Hashemi Fesharaki
13:00 - 14:00	Break
14:00 - 14:55	Dr. Reza Ebrahimpour
15:00 - 15:55	Dr. Hamed Ekhtiari
16:00 - 19:15	Oral Poster presentations

Symposium Schedule

Day 2: 7 July 2022

Local (Tehran) time 7 July (16 tir)	Speaker
10:00 - 10:55	Dr. Anahita Khorrami
11:00 - 11:55	Dr. Hossein Ghadiri
12:00 - 12:55	Dr. Javad Safaie
13:00 - 14:00	Break
14:00 - 14:55	Oral Poster presentations
15:00 - 15:55	Dr. Armin Iraji

Symposium Schedule

Day 3: 8 July 2022

Friday, July 8, 2022	Diagnosis and Treatment of Childhood Disorders Panel			9 - 10:30
	Sponsers AND Associations Meetings			11 – 12:30
Meeting Room	Association	11 -11:30	11:30 - 12	12 - 12:30
1	Iranian Child and Adolescent Psychiatry ssociation	Imaje Ertebat Electronic Gostar (IEEG)	Fanavaran Sarmad	Science Beam
2	Iranian Child and Adolescent Neurology Society	Teb Tajhiz Atousa	Fanavari Azmayeshgahi	Imaje Ertebat Electronic Gostar (IEEG)
3	Occupational Therapy Association/Scientific Association of Speech Therapy	Science Beam	Tavaan Danesh Mehrsam	Daj Scientific Group
Friday, July 8, 2022	Diagnosis and Treatment of Age-related Disorders Panel			11 - 12:30
	Sponsers AND Associations Meetings			12:45 – 14:15
Meeting Room	Association	12:45 - 13:15	13:15 - 13:45	13:45 - 14:15
1	The Iranian Center of Neurological Research (ICNR)	Teb Tajhiz Atousa	Fanavaran Sarmad	Fanavari Azmayeshgahi
2	Iranian Sleep Medicine Society	Vira Payesh Salamat (BioIn)	Imaje Ertebat Electronic Gostar (IEEG)	Zarela
3	Alzheimer's Association of Iran	Zarela	Daj Scientific Group	Teb Tajhiz Atousa
Friday, July 8, 2022	Diagnosis and Treatment of Addiction Panel			14 - 15:30
	Sponsers AND Associations Meetings			15:30 – 17
Meeting Room	Association	15:30 - 16	16 - 16:30	16:30 - 17
1	Iranian Psychological Association	Medina Teb	Vira Payesh Salamat (BioIn)	Fanavaran Sarmad
2	Iranian National Center for Addiction Studies (INCAS)	Farmed Tajhiz	Science Beam	
3	Iranian Laser Medicine Association	Science Beam		
Friday, July 8, 2022	Closing			15:30 - 16

Symposium Schedule

Day 3: 8 July 2022

Friday, July 8, 2022	Pre-surgical Planning Panel			16 - 17:30
	Sponsers AND Associations Meetings			17:30 - 19
Meeting Room	Association	17:30 - 18	18 - 18:30	18:30 - 19
1	Neurosurgical Society of Iran	Teb Tajhiz Atousa	Fanavari Azmayeshgahi	
2	Iranian Neuroscience Society	Farmed Tajhiz	Medina Teb Gostar	Vira Payesh / Fanavaran Sarmad
3	Iranian Association of Medical Physicists	Fanavari Azmayeshgahi	Zarela	Medina Teb / Emaje Ertebat Gostar
Friday, July 8, 2022	Diagnosis and Treatment of Trauma Panel			18 - 19:30
	Sponsers AND Associations Meetings			19:30 – 21
Meeting Room	Associations name	19:30 - 20	20 - 20:30	20:30 - 21
1	Iranian Headache Association(IHA)	Vira Payesh Salamat (BioIn)	Imaje Ertebat Electronic Gostar (IEEG)	
2	Iranian Society of Physical Medicine and Rehabilitation	Teb Tajhiz Atousa	Farmed Tajhiz	Tavan Danesh Mehrsam
3	Iranian Epilepsy Association	Fanavari Azmayeshgahi	Daj Scientific Group	Medina Teb Gostar
Conference Hall	Shiraz Neuroscience Research Center (SNRC)	Farmed Tajhiz	Vira Payesh Salamat (BioIn)	

Symposium Schedule

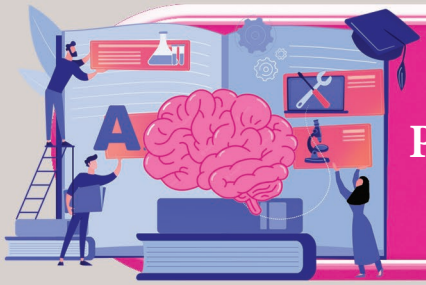
روز سوم: جمعه ۱۷ تیرماه ۱۴۰۱
Day 3: 8 July 2022

جمعه ۱۷ تیر	پنل ۱: تشخیص و درمان اختلالات کودکان			ساعت: ۱۰:۳۰ - ۹
	جلسه شرکت‌های حامی با نمایندگان انجمن‌ها			ساعت: ۱۲:۳۰ - ۱۱
اتاق جلسه	نام انجمن	۱۱:۳۰ - ۱۱	۱۲ - ۱۱:۳۰	۱۲:۳۰ - ۱۲
۱	انجمن روانپزشکی کودک و نوجوان	ایماژ ارتباط گستر	فناوران سرمد	پرتو دانش
۲	انجمن‌مغزواعصاب‌کودکان	طب تجهیز آتوسا	فن‌آوری آزمایشگاهی	ایماژ ارتباط گستر
۳	انجمن گفتار درمانی/ انجمن کار درمانی	پرتو دانش	توان دانش مهرسام	داج
جمعه ۱۷ تیر	پنل ۲: تشخیص و درمان اختلالات سالمندان			ساعت: ۱۲:۳۰ - ۱۱
	جلسه شرکت‌های حامی با نمایندگان انجمن‌ها			ساعت: ۱۴:۱۵ - ۱۲:۴۵
اتاق جلسه	نام انجمن	۱۳:۱۵ - ۱۲:۴۵	۱۳:۴۵ - ۱۳:۱۵	۱۴:۱۵ - ۱۳:۴۵
۱	مرکز تحقیقات‌بیماری‌های مغز و اعصاب دانشگاه علوم پزشکی تهران	طب تجهیز آتوسا	فناوران سرمد	فناوری آزمایشگاهی
۲	انجمن پزشکی طب خواب	ویرا پایش سلامت	ایماژ ارتباط گستر	زارلا
۳	انجمن آلزایمر	زارلا	داج	طب تجهیز آتوسا
جمعه ۱۷ تیر	پنل ۳: تشخیص و درمان اعتیاد			ساعت: ۱۵:۳۰ - ۱۴
	جلسه شرکت‌های حامی با نمایندگان انجمن‌ها			ساعت: ۱۷ - ۱۵:۳۰
اتاق جلسه	نام انجمن	۱۶ - ۱۵:۳۰	۱۶:۳۰ - ۱۶	۱۷ - ۱۶:۳۰
۱	انجمن روانشناسی ایران	مدینا طب	ویرا پایش سلامت	فناوران سرمد
۲	مرکز ملی مطالعات اعتیاد	فارمد تجهیز	پرتو دانش	مدینا طب گستر
۳	انجمن پزشکی لیزری	پرتو دانش		
	اختتامیه		ساعت ۱۵:۳۰ الی ۱۶	

Symposium Schedule

روز سوم: جمعه ۱۷ تیرماه ۱۴۰۱
Day 3: 8 July 2022

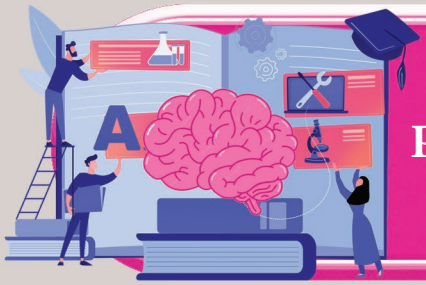
جمعه ۱۷ تیر	پنل ۴: Pre-surgical Planning			ساعت: ۱۶ – ۱۷:۳۰
	جلسه شرکت‌های حامی با نمایندگان انجمن‌ها			ساعت: ۱۹ – ۱۷:۳۰
اتاق جلسه	نام انجمن	۱۸ – ۱۷:۳۰	۱۸:۳۰ – ۱۸	۱۹ – ۱۸:۳۰
۱	انجمن جراحان مغز و اعصاب ایران	طب تجهیز آتوسا	فناوری آزمایشگاهی	
۲	انجمن علوم اعصاب ایران	فارمد تجهیز	مدینا طب گستر	ویرا پایش سلامت/ فناوران سرمد
۳	انجمن فیزیک پزشکی	فن‌آوری آزمایشگاهی	زارلا	مدیناطب گستر/ ایماژ ارتباط گستر
جمعه ۱۷ تیر	پنل ۵: تشخیص و درمان تروما			ساعت: ۱۸ – ۱۹:۳۰
	جلسه شرکت‌های حامی با نمایندگان انجمن‌ها			ساعت: ۲۱ – ۱۹:۳۰
اتاق جلسه	نام انجمن	۲۰ – ۱۹:۳۰	۲۰ – ۲۰: ۳۰	۲۱ – ۲۰:۳۰
۱	انجمن سردرد ایران	ویرا پایش سلامت	ایماژ ارتباط گستر	
۲	انجمن طب فیزیکی، توانبخشی و الکترودیاگنوز ایران	طب تجهیز آتوسا	فارمد تجهیز	توان دانش مهرسام
۳	انجمن صرع	فناوری آزمایشگاهی	داج	مدینا طب گستر
سالن کنفرانس	انجمن علوم اعصاب شیراز	فارمد تجهیز	ویرا پایش سلامت	



Oral Presentation Schedule

6 July 2022 16-19:15

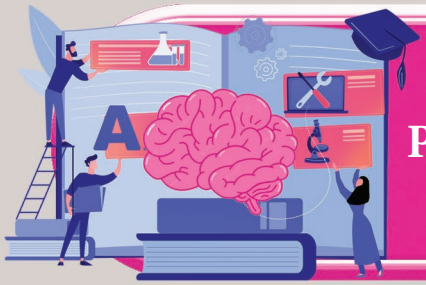
Paper Title	Authors	Presentation Time (Tehran)
Depression Identification Using Asymmetry Matrix and Machine Learning Algorithms	Majid Torabi Mehdi Dehghani Vahid Asayesh Sepideh Akhtari	Wednesday 6 July 2022 16-16:12
Investigation Capability of Electroencephalography-based Non-linear Features in Depression Detection	Mehdi Dehghani Majid Torabi Vahid Asayesh Sepideh Akhtari	Wednesday 6 July 2022 16:15-16:27
High-level Semantic Representational Similarity Between Brain Activity and WordNet During Natural Movie Watching	Yamin Bagheri .D Abdol Hossein Vahabie	Wednesday 6 July 2022 16:30-16:42
Perceptual Decision Confidence Recognition During Random Dot Kinematogram Task using EEG and Deep Learning	Alireza Ettefagh Farnaz Ghassemi Zahra Tabanfar	Wednesday 6 July 2022 16:45-16:57
Subject-to-Subject Transfer Learning Based on Tensor Decomposition for BCI Application	Zahra Sohrabi-Bonab Mohammad-Bagher Shamsollahi	Wednesday 6 July 2022 17-17:12
Correlation of Brain Oscillation with Executive Function Performance	Mohammad Asadi Pegah Ramezani	Wednesday 6 July 2022 17:15-17:27
The Combination of Transcranial Magnetic Stimulation, HRV Biofeedback and Exposure Prevention Response for Resistant Obsessive Compulsive Disorder: An Intensive Day Care Program	Sanaz Khomami Roshanak Khodabakhsh Pirklani	Wednesday 6 July 2022 17:30-17:42



Oral Presentation Schedule

6 July 2022 16-19:15

Paper Title	Authors	Presentation Time (Tehran)
The Causal Role of the Lateral Intraparietal Area in Object Long-Term Value Memory	Leila Noorbala Reza Khosrowabai Omid Sharafi Ali Ghazizadeh	Wednesday 6 July 2022 17:45-17:57
Structural and Functional Connectivity Analysis in Cannabis Users	Najme Soleimani Kamran Kazemi Sara Jafakesh Mohammad Sadegh Helfroush Valentina Lorenzetti Ardalan Aarabi	Wednesday 6 July 2022 18-18:12
Electroencephalographic Microstates Analysis in Major Depressive Disorder	Vahid Asayesh Mehdi Dehghani Majid Torabi Sepideh Akhtari Tomas Ros	Wednesday 6 July 2022 18:15-18:27
Joint Modeling of Structural-Functional Brain Networks in Full-term Neonates	Mahshid Fouladivanda Kamran Kazemi Habibollah Danyali Ardalan Aarabi	Wednesday 6 July 2022 18:30-18:42
Representation of Confidence in Prediction of Other's Risky Decision Making: An fMRI study	Ahmad Shoaa Haghighi	Wednesday 6 July 2022 18:45-18:57
Altered Effective Connectivity in the Default Mode Network Between Healthy Control and Autism Patient Groups: A Resting-State fMRI Study	Fatemeh Mansouri Mahdi Saadatmand Fabrice Wallois	Wednesday 6 July 2022 19-19:12



Oral Presentation Schedule

7 July 2022 14-15

Paper Title	Authors	Presentation Time (Tehran)
The Role of Cognitive Style in Moral Judgment	Negar Karimi Javad Hatami	Thursday 7 July 2022 14-14:12
Investigation of Task Engagement Index in Mobile BCI Systems Based on Steady-State Visually Evoked Potentials	Amin Abdipourasl Zahra Tabanfar Ali Nouri	Thursday 7 July 2022 14:15-14:27
Real-time EEG-based Person Identification Using Convolutional Neural Network	Mahdi Mohammad Ali Nouri	Thursday 7 July 2022 14:30-14:42
Emotion Classification from EEG Signals Using Differential Entropy Feature and SVM	Narges Hosseini Babak Mohammadzadeh Asl	Thursday 7 July 2022 14:45-14:57

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خدمت جدید آزمایشگاه ملی نقشه‌برداری مغز

راه‌اندازی آزمایشگاه "سیستم آنالیز حرکت"

این آزمایشگاه شامل دو سیستم
"سیستم آنالیز حرکت مبتنی بر سنسور IMU"
و
"ردیاب فعالیت فیزیکی بدن" می‌باشد.

کـــاربردها:

- آنالیز راه رفتن در بیماران عصبی عضلانی
- کمک به درمان بیماری‌های عصبی عضلانی
- اصلاح تکنیک ورزشکاران حرفه‌ای
- بررسی میزان و نوع فعالیت بیماران در دوره بازتوانی
- مانیتورینگ و بررسی فعالیت‌های بدنی ورزشکاران و بیماران
- ارزیابی و ارائه تمرین‌های باز توانی
- بهبود پروتکل‌های تمرینی ورزشکاران

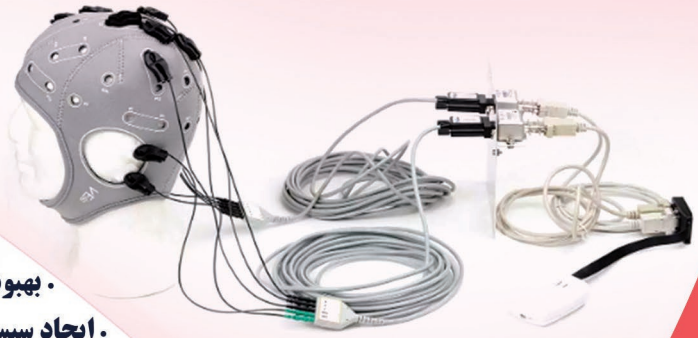
خـــدمات:

- محاسبه پارامترهای کینماتیکی نظیر زوایای مفصلی و شتاب اندام‌ها
- قابلیت ثبت همزمان با واقعیت مجازی و EEG و EMG
- محاسبه پارامترهای کینماتیکی، مسافت طی شده، انرژی مصرفی، شاخص خستگی وتعادل و کاربردهایی در بازتوانی و فیزیوتراپی

خدمت جدید آزمایشگاه ملی نقشه‌برداری مغز

خدمات جدید بخش تحریک مغزی

راه‌اندازی ستاپ ثبت همزمان tES-fMRI
با استفاده از دستگاه ۸ کاناله Starstim

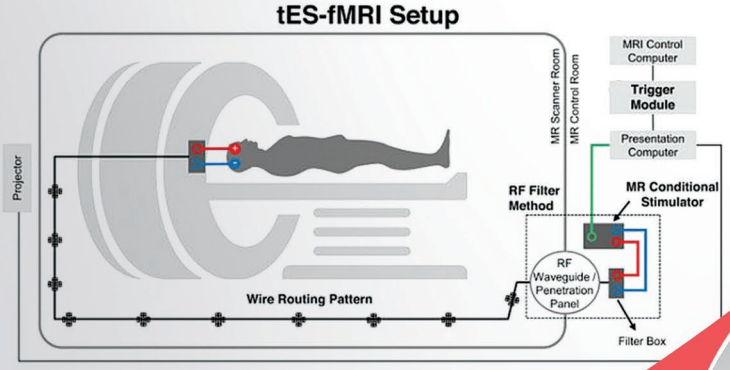


کاربردها:

- بررسی اثر آنی تحریک الکتریکی بر عملکرد مغز با استفاده از داده fMRI
- بهبود و شخصی‌سازی پروتکل‌های درمانی تحریک الکتریکی
- ایجاد سیستم حلقه بسته بر اساس عملکرد مغز جهت بهینه‌کردن پارامترهای تحریک الکتریکی

خدمات:

- قابلیت اعمال تحریک tACS، tDCS و tRNS
- قابلیت اعمال تحریک الکتریکی در هنگام ثبت همزمان داده task-fMRI و rest-fMRI



ISBM 2022

6th Iranian Symposium on Brain Mapping Updates

National Brain Mapping Laboratory

in cooperation with

- **Iranian Child and Adolescent Psychiatry Association**
- **Iranian Child and Adolescent Neurology Society**
- **Iranian Scientific Association of Speech Therapy**
- **Iranian Occupational Therapy Association**

will hold:

Panel on the Diagnostic and Therapeutic Challenges of Neurodevelopmental Disorders in Children (LD/ADHD/ASD)

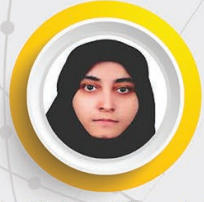
Dr. Bahram Yar Ali

Subspecialist in Children and Adolescents Neurology
Epilepsy Fellowship

Moderator

Dr. Mehdi Tehrani-Doost

Children and Adolescents Psychiatrist
Faculty Member of Tehran University of Medical Sciences



Dr. Zahra Ghoreishi

PhD in Speech-Language Pathology
Faculty Member of University of Social Welfare and Rehabilitation Sciences (USWR)

Dr. Mehdi Alizadeh Zarei

PhD in Neuroscience
Faculty Member of Iran University of Medical Sciences

More information and registration:

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Date & Time
Friday, July 08, 2022
9-10:30

anel-1401/ISBM

ISBM
ششمین سمپوزیوم تازه‌های نقشه‌برداری مغز ایران
آزمایشگاه ملی نقشه‌برداری مغز
با همکاری
.انجمن روانپزشکی کودک و نوجوان
.انجمن علمی مغز و اعصاب کودکان و نوجوانان ایران
.انجمن گفتاردرمانی
.انجمن کاردرمانی
برگزار می‌کند:
پنل چالش‌های تشخیصی و درمانی در اختلالات عصبی– رشدی کودکان (اختلال یادگیری/اختلال بیش فعالی کم توجهی/اختلال طیف اوتیسم)
رئیس پنل
دکتر مهدی تهرانی دوست
متخصص روانپزشکی کودک و نوجوان
عضو هیات علمی دانشگاه علوم پزشکی تهران
دکتر بهرام یارعلی
فوق تخصص مغز و اعصاب کودکان و نوجوانان
فلوشیپ صرع
دکتر مهدی علیزاده زارعی
دکترای تخصصی علوم اعصاب
عضو هیات علمی دانشگاه علوم پزشکی ایران
دکتر زهرا قریشی
دکترای تخصصی آسیب شناسی گفتار و زبان
عضو هیات علمی دانشگاه علوم توانبخشی و سلامت اجتماعی
زمان: جمعه ۱۷ تیرماه ۱۴۰۱
ساعت: ۹ الی ۱۰:۳۰
ثبت نام و کسب اطلاعات بیشتر:
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ISBM 2022

6th Iranian Symposium on Brain Mapping Updates

انجمن آلزایمر ایران

انجمن پزشکی خواب ایران
۱۳۸۴ - 2006
Iranian Sleep Medicine Society

ICNR

NBML

National Brain Mapping Laboratory

in cooperation with

- **The Iranian Center of Neurological Research (ICNR), Tehran University of Medical Sciences**
- **Research Center for Cognitive and Behavioral Sciences, Tehran University of Medical Sciences**
- **Iranian Sleep Medicine Society**
- **Alzheimer's Association of Iran**

will hold:

Panel on the Diagnostic Challenges of Cognitive Disorders in Old People

Dr. Hamed Amiri Fard

Neurologist

Faculty Member of Tehran University of Medical Sciences

Moderator

Dr. Mohammad Sayadnasiri

Neurologist

Faculty Member of University of Social Welfare and Rehabilitation Sciences (USWR)

Dr. Maryam Noroozian

Neurologist

Faculty Member of Tehran University of Medical Sciences

Dr. Zahra Vahabi

Neurologist

Faculty Member of Tehran University of Medical Sciences

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Date & Time
Friday, July 08, 2022
11-12:30

panel-1401/2/ISBM

ISBM 2022
ششمین سمپوزیوم تازه‌های نقشه‌برداری مغز ایران
انجمن آلزایمر ایران
انجمن پزشکی خواب ایران
۱۳۸۴ - 2006
Iranian Sleep Medicine Society
ICNR
مرکز تحقیقات بیماری های مغز و اعصاب
NBML
National Brain Mapping Lab
آزمایشگاه ملی نقشه‌برداری مغز
با همکاری
.مرکز تحقیقات بیماری‌های مغز و اعصاب دانشگاه علوم پزشکی تهران
.مرکز تحقیقات علوم شناختی و رفتاری دانشگاه علوم پزشکی تهران
.انجمن علمی پزشکی خواب
.انجمن آلزایمر
برگزار می‌کند:
پنل چالش‌های تشخیصی در اختلالات شناختی سالمندان
رئیس پنل
دکتر محمد صیاد نصیری
متخصص مغز و اعصاب
عضو هیات علمی دانشگاه علوم توانبخشی و سلامت اجتماعی
دکتر حامد امیری فرد
متخصص مغز و اعصاب
عضو هیات علمی دانشگاه علوم پزشکی تهران
دکتر زهرا وهابی
متخصص مغز و اعصاب
عضو هیات علمی دانشگاه علوم پزشکی تهران
دکتر مریم نوروزیان
متخصص مغز و اعصاب
عضو هیات علمی دانشگاه علوم پزشکی تهران
زمان: جمعه ۱۷ تیرماه ۱۴۰۱
ساعت: ۱۱ الی ۱۲:۳۰
ثبت نام و کسب اطلاعات بیشتر:
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panel-14012/ISBM

ISBM 2022

6th Iranian Symposium on Brain Mapping Updates

National Brain Mapping Laboratory

in cooperation with

- Iranian National Center for Addiction Studies (INCAS)
- Iranian Psychological Association
- Iranian Laser Medicine Association

will hold:

Panel on the Diagnosis and Treatment of Addiction (Drug Abuse)

Dr. Tara Rezapour
PhD in Cognitive Science
Faculty Member of the Institute for Cognitive Science Studies (ICSS)

Moderator

Dr. Hamed Ekhtiari
PhD in Neuroscience
Researcher at Laureate Institute for Brain Research

Dr. Peyman Ghobadi
PhD in Biomedical Engineering
Researcher in National Center for Addiction Studies

Dr. Massoud Nosratabadi
PhD in Health Psychology

Dr. Reza Fekrazad
Periodontist
Faculty Member of Army University of Medical Sciences

Date & Time
Friday, July 08, 2022
14-15:30

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آزمایشگاه ملی نقشه‌برداری مغز
با همکاری
. مرکز ملی مطالعات اعتیاد
. انجمن روان شناسی ایران
. انجمن علمی پزشکی لیزری ایران
برگزار می‌کند:
پنل تشخیص و درمان اعتیاد
(سوء مصرف مواد)
رئیس پنل
دکتر حامد اختیاری
متخصص علوم اعصاب
محقق موسسه مطالعات مغز Laureate
دکتر تارا رضاپور
دکترای تخصصی علوم شناختی
عضو هیات علمی موسسه آموزش عالی علوم شناختی
دکتر رضا فکرآزاد
جراح و متخصص بیماری‌های لثه
عضو هیات علمی دانشگاه علوم پزشکی ارتش
دکتر مسعود نصرت آبادی
دکترای تخصصی روانشناسی سلامت
دکتر پیمان قبادی
دکترای تخصصی مهندسی پزشکی
محقق مرکز ملی مطالعات اعتیاد
زمان: جمعه ۱۷ تیرماه ۱۴۰۱
ساعت: ۱۴ الی ۱۵:۳۰
ثبت نام و کسب اطلاعات بیشتر:
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ISBM 2022

6th Iranian Symposium on Brain Mapping Updates

National Brain Mapping Laboratory

in cooperation with

- Neurosurgical Society of Iran
- Iranian Neuroscience Society
- Iranian Association of Medical Physicists

will hold:

Pre-surgical Planning Panel

Moderator

Dr. Mohammad-Taghi Joghataei
PhD in Anatomy
Faculty Member of Iran University of Medical Sciences

Dr. Mohammad Ali Oghabian
PhD in Medical Physics
Faculty Member of Tehran University of Medical Sciences

Dr. Guive Sharifi
Professor of Neurosurgery
Shahid Beheshti University of Medical Science

Dr. Gelareh Banihashemi
Neurologist, Interventional Neuroradiology Fellowship
Assistant Professor of Tehran University of Medical Sciences

Dr. Aidin Taghiloo
Radiologist

Date & Time
Friday, July 08, 2022
16-17:30

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panel-14015/ISBM

ISBM 2022
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آزمایشگاه ملی نقشه‌برداری مغز
با همکاری
.انجمن جراحان مغز و اعصاب ایران
.انجمن علوم اعصاب ایران
.انجمن فیزیک پزشکی
برگزار می‌کند:
پنل
Pre-surgical Planning
رئیس پنل
دکتر گیو شریفی
متخصص جراحی مغز و اعصاب
استاد دانشگاه علوم پزشکی شهید بهشتی
دکتر محمدعلی عقابیان
دکتری تخصصی فیزیک پزشکی
استاد دانشگاه علوم پزشکی تهران
دکتر محمدتقی جغتایی
دکتری تخصصی آناتومی
استاد دانشگاه علوم پزشکی ایران
دکتر آیدین تقی لو
رادیولوژیست
دکتر گلاره بنی هاشمی
متخصص داخلی مغز و اعصاب
فوق تخصص نوروانترونشن
عضو هیات علمی دانشگاه علوم پزشکی تهران
زمان: جمعه ۱۷ تیرماه ۱۴۰۱
ساعت: ۱۶ الی ۱۷:۳۰
ثبت نام و کسب اطلاعات بیشتر:
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ISBM 2022

6th Iranian Symposium on Brain Mapping Updates

National Brain Mapping Laboratory

in cooperation with

- Iranian Headache Association(IHA)
- Iranian Society of Physical Medicine and Rehabilitation
- Shiraz Neuroscience Research Center (SNRC)
- Iranian Epilepsy Association

will hold:

Panel on the Diagnosis and Treatment of Traumatic Injuries of the Central Nervous System" (CNS)

Dr. Seyed Sohrab Hashemi Fesharaki

Neurologist

Member of Iranian Epilepsy Association

Moderator

Dr. Mansoureh Togha

Neurologist

Faculty Member of Tehran University of Medical Sciences

Dr. Mansoor Rayegani

Physiatrist

Faculty Member of Shahid Beheshti University of Medical Sciences

Dr. Majid Reza Farrokhi

Neurosurgeon

Faculty Member of Shiraz University of Medical Sciences

Date & Time

Friday, July 08, 2022

18-19:30

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آزمایشگاه ملی نقشه‌برداری مغز
با همکاری
.انجمن سردرد ایران
.انجمن طب فیزیکی، توانبخشی و الکترو دیاگنوز ایران
.مرکز تحقیقات علوم اعصاب شیراز
.انجمن صرع
برگزار می‌کند:
پنل تشخیص و درمان ترومای عصبی مرکزی
رئیس پنل
دکتر منصوره تقا
متخصص مغز و اعصاب
عضو هیات علمی دانشگاه علوم پزشکی تهران
دکتر سید سهراب هاشمی فشارکی
متخصص مغز و اعصاب
عضو انجمن صرع ایران
دکتر مجیدرضا فرخی
متخصص جراحی مغز و اعصاب
عضو هیات علمی دانشگاه علوم پزشکی شیراز
دکتر منصور رایگانی
متخصص طب فیزیکی و توانبخشی
عضو هیات علمی دانشگاه علوم پزشکی شهید بهشتی
زمان: جمعه ۱۷ تیرماه ۱۴۰۱
ساعت: ۱۸ الی ۱۹:۳۰
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آزمایشگاه ملی نقشه‌برداری مغز
National Brain Mapping Lab
NBML

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Convergent Development
of Science and Technology
in Brain Mapping

NBML, southern corner of the Electrical Engineering Faculty, College of Engineering, opposite the 10th Street, Kargar-e Shomali Avenue, Tehran, Iran

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