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BioMicroSystems

Laboratory was

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Electrical Engineering

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Science Department

of Case Western

Reserve University,

Cleveland, OH in

August 2005 by

Professor Pedram

Mohseni. The

research activities of

the laboratory lie in

the fields of

biomicrosystems,

implantable

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neuroprostheses,

wireless brain-

machine interfaces,

microelectronics for

neural engineering,

and wireless

integrated

sensing/actuating

systems.

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~~Dr. Pedram Mohseni~~

Pedram Mohseni

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(S'94-M'05-SM'11)

received the B.S.
degree from the
Sharif University of
Technology, Tehran,
Iran, in 1996, and the
M.S. and Ph.D.
degrees from the
University of
Michigan, Ann Arbor,
MI, USA, all in
electrical engineering,
in 1999 and 2005,
respectively.

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Currently, he is a tenured Full Professor in the Electrical Engineering and Computer Science Department at Case Western Reserve University, Cleveland, OH, USA, with a secondary appointment in the Biomedical Engineering Department.

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Pedram Mohseni,
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pedram.mohseni@ca
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216.368.5263. Office
Location: Glennan.
517-B. Professor and
Interim co-Chair,
Department of
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Science.

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address the hardware
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of principal
component regression
(PCR), we propose a
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degree from the Sharif University of Technology, Tehran, Iran, in 1996, and the M.S. and Ph.D.

degrees from the University of Michigan, Ann Arbor, MI, USA, all in electrical engineering, in 1999 and 2005, respectively.

Currently, he is a tenured Full Professor

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Mohseni Case

Engineering and
Computer Science
Department at Case
Western Reserve
University, Cleveland,
OH, USA, with a
secondary
appointment in the
Biomedical
Engineering
Department.

~~Pedram Mohseni,~~

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~~PhD—Advanced
Platform Technology
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platform for complex
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measurement versus
frequency (i.e.,

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dielectric Case

spectroscopy, or DS)

in a broad frequency

range from MHz to

GHz. The platform

comprises an

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microfabricated ...

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~~Dr. Pedram Mohseni~~

Currently, he is

pursuing the Ph.D.

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degree at Case

Western Reserve

University, Cleveland,

OH. His research

activities involve

developing advanced

microelectronic

circuits and systems

for bridging damaged

spinal cord pathways.

Email: shahabedin.sh

ahdoostfard@case.ed

u. Debnath Maji.

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Technology, Tehran,

Iran, in 1996, and the

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degrees from the

University of

Michigan, Ann Arbor,

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MI, USA, in 1999 and 2005, respectively, all in electrical engineering. In 2005, he joined Case Western Reserve University, Cleveland, OH, USA, where he is currently the Leonard Case Jr. Professor of Engineering and the Interim Chair of the Electrical, Computer, and Systems

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Engineering Case

~~Pedram Mohseni
IEEE Xplore Author
Details~~

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created a blood
testing device, about
the size of a
cellphone, that could
improve health care

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and decrease costs
for millions of ...

Device from
Cleveland startup
helps people taking
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Tel: (216) 368 5263
Glennan Building,
Room 517-B
Cleveland, OH 44106

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USA www.mohsenilab-cwru.org Fax: (216) 368 6888.

EDUCATION: •Ph.D.
in Electrical
Engineering,
University of
Michigan, Ann Arbor,
MI Jan 2000 – Aug
2005.

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integrated instruments
for neural engineering
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Mohseni, a professor
at Case Western

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Breakthrough Devices
Program was created
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biomedical Case

engineering and
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and explain the potential of emerging applications for areas including biology, nanotechnology, micro-electromechanical systems (MEMS), microfluidics, and photonics.

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Exploring Assistive
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and Mind," attracted scientists, engineers and medical researchers to participate in a series of task groups to develop research plans to address various challenges within the prosthetics field. Eleven conference task groups gave the participants eight

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hours to develop new research approaches to various challenges, including: build a smart prosthesis that will grow with a child; develop a smart prosthetic that can learn better and/or faster; refine technologies to create active orthotic devices; and describe a framework for

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replacing damaged cortical tissue and fostering circuit integration to restore neurological function. Representatives from public and private funding organizations, government, industry, and the science media also participated in the task groups. This book provides a

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summary of the

conference task

groups. For more

information about the

conference, visit the

Smart Prosthetics

conference site. The

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Keck Futures Initiative

was launched in 2003

to stimulate new

modes of scientific

inquiry and break

down the conceptual

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and institutional Case

barriers to
interdisciplinary
research. The

National Academies

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considerable scientific

progress and social

benefit will be

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the tendency to

isolate research within

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funding agencies, universities, and the general public with the object of stimulating interdisciplinary research at the most exciting frontiers. The Futures Initiative builds on three pillars of vital and sustained research:
interdisciplinary encounters that

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Counterbalance Case

specialization and
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these goals, the

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incorporates three
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subject. Each chapter
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is developed for
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and working
professionals with
technology, science
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book since 2011. This

book covers the

following topics:

About the Authors

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