

## ADNAN KURT

Research Engineer

Nov.2008



**AREAS OF SPECIALTY:** Laser Design; Optical, Electronic, and Biomedical Instrumentation; Data Acquisition System Design (Software and hardware); Neurophysiology; Power Design; Digital Printing

**EDUCATION:** M.S. in Physics, Boğaziçi University, 1987; B.S. in Electrical Engineering, Boğaziçi Univ., 1984.

Mr. Kurt taught Electronic Design, and Experimental Physics Laboratory. His recent research and work focuses on laser fluorescence spectroscopy, characterization of diode pumped solid state lasers, microcavity resonators, laser-tissue interactions, laser assisted surgery, electronic instrument design for optics research and biomedicine, flashlamp power supply and controller design, flashlamp pumped solid state lasers, instrumentation with micropower microcontrollers, micropower intelligent deep brain stimulator, microelectrode measurement and data acquisition system for stereotaxic brain surgery, switchmode magnetics and power supply design for high voltage, e-publishing, digital offset printing technology, prepress (image scanners, page layout, spectroscopic color correction), hardware and software design for data acquisition systems.

### SELECTED PUBLICATIONS

- A. Kiraz, A. Kurt, M. A. Dündar, and A. L. Demirel, 'Simple largely tunable optical microcavity', Appl. Phys. Lett. 89, 081118 (2006).
- H. Kalaycioglu, A. Sennaroglu, and A. Kurt, 'Influence of doping concentration on the power performance of diode-pumped continuous-wave Tm<sup>3+</sup>:YAIO<sub>3</sub> lasers,' IEEE J. S T in Quantum Electron., 11, 667-673 (2005).
- Koksal F, Domjan M, Kurt A, Sertel O, Orung S, Bowers R, Kumru G., 'An animal model of fetishism'. Behav Res Ther. 2004 Dec;42(12):1421-34.
- Gulsoy M, Durak K, Kurt A, et al. *The 980-nm diode laser as a new stimulant for laser evoked potentials studies* LASER SURG MED 28 (3): 244-247 2001
- Y.O. Yilmaz, A. Demir, A. Kurt, and A. Serpengüzel, "Optical Channel Dropping with a Silicon Microsphere," IEEE Photon. Technol. Lett., 17, 1662-1664 (2005).
- Gulsoy M, Celikel T, Kurt A, et al. *Application of the 980-nm diode laser in stereotaxic surgery* IEEE J SEL TOP QUANT 5 (4): 1090-1094 JUL-AUG 1999
- Devrim M, Demiralp T, Kurt A, et al. *Slow cortical potential shifts modulate the sensory threshold in human visual system* NEUROSCI LETT 270 (1): 17-20 JUL 23 1999

### CONSULTING

Consulting to Mitra AŞ, Cortex İletişim AŞ.

### PROFESSIONAL EXPERIENCE

#### Academic

Research Engineer,	Koc University, Physics Department	1999-2007
Research Scientist,	Physiology Dept., I.U. Medical School	1992-1995
Part-Time Lecturer,	Air Force Academy	1990-1992
Research Assistant,	Psychology and Physics Dept., Boğaziçi Univ.	1985-1992

#### Industry Experience

R&D Engineer (Founding Partner),	Teknofil Ltd.	1994-present
Business Development and Technical Support Manager (F.P.),	Mitra A.S.	1996-1999
Technical Manager,	Sigma Ltd. Optics & Photonics Div.	1993-1996

#### More

Managing Editor,	<a href="#">Hayalet Gemi</a> Magazine (Philosophy and Fiction)	1994-2003
Editor and F.P.,	<a href="http://www.altKitap.com">www.altKitap.com</a> (e-publishing house)	2000-present
Editorial Board,	TUBITAK Kitaplari	2004-2007
Editorial Board,	TUBITAK Bilim & Teknik	2004-2007
Editorial Board,	<a href="http://www.altzine.net">www.altzine.net</a> (e-magazine)	2003-2006
Editor,	Sağlıklı Dergi	2006-2007

### COMMUNICATIONS

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