ברוכים הבאים

Welcome

اهلآ وسهلا

לפקולטה להנדסת חשמל

ע"ש אנדרו ורנה פרנבי

Technion
Have a good week
Congratulations to Dr. Daniel Soudry for this outstanding recognition of his research accomplishments. Dr. Daniel Soudry was selected to receive Intel’s 2020 Rising Star Faculty Award. Intel's Rising Star Faculty Award program selected 10 university faculty members who show great promise in developing future computing technologies. October 2020
Gustav Kirchhoff
German physicist (12 March 1824 – 17 October 1887) who contributed to the fundamental understanding of electrical circuits, spectroscopy, and the emission of black-body radiation by heated objects.

Known for: Kirchhoff's circuit laws, Kirchhoff's law of thermal radiation, Kirchhoff's laws of spectroscopy, Kirchhoff's law of thermochemistry

From Wikipedia, the free encyclopedia
Three Point Defects in Diamond (To Say Nothing of the Resonator)

Sergei Masis

Monday, 19/10/2020
14:30

Join Zoom Meeting

https://technion.zoom.us/j/92428025701

Dense ensembles of negatively charged Nitrogen-Vacancy (NV-) point defects in diamond provide a unique optical interface to electronic spins, allowing both polarization and readout of the spin state with light. In the first project we have coupled the NV- ensemble to a microwave resonator, performing a classical Electron Spin Resonance (ESR) experiment.

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“State-of-the-Art Automotive Radar System Architectures and What Else We Can Do with Them”

Automotive Radar operating in the 77 GHz and 79 GHz bands is the largest market for mmWave systems. Consequently, a de-facto standard system architecture has evolved which is used by most devices on the market and under current development. Modern automotive radars are to a large extent software defined and enable adaptive selection of waveform parameters as well as dynamic utilization of RF subsystems such as transmit and receive channels. This flexibility is the key-enabler for implementing multi-purpose radar sensors, which can realize functions from adaptive cruise control down to automated parking all in one device. Together with the high-volume of automotive radars also comes a rapid cost-reduction. Consequently, they become more and more attractive for solving various other sensing challenges: something else they have originally been designed for.

After reviewing the state-of-the-art system architecture of automotive radar sensors, this presentation will introduce some novel ideas and applications how performance of that automotive “mass-product” can be further improved and how their flexibility allows for a widespread use, far beyond the traditional adaptive cruise control.

Monday, October 19, 2020
11:00-12:30, online ZOOM session

Registration is free. Please register here: https://acrc.net.technion.ac.il/registration-markus-gardill/
zoom link: to be provided after registration

Prof. Markus Gardill
University of Würzburg, Germany

Monday, October 19, 2020 at 11:00 (I D T)
Please register here: https://acrc.net.technion.ac.il/registration-markus-gardill/
ACRC – Advanced Circuit Research Center
ברוכים הבאים לפקיתת שנת הלימודים תשפ”א

לוח שנה האקדמית תשפ”א 2020-2021

21.10.2020
Pixel Club online talk
Rendering Near-Field Speckle Statistics in Scattering Media

Chen Bar
Tuesday, 20/10/2020
11:30
Zoom Meeting

We introduce rendering algorithms for the simulation of speckle statistics observed in scattering media under coherent near-field imaging conditions. Our work is motivated by the recent proliferation of techniques that use speckle correlations for tissue imaging applications: The ability to simulate the image measurements used by these speckle imaging techniques in a physically-accurate and computationally-efficient way can facilitate the widespread adoption and improvement of these techniques.

https://technion.zoom.us/j/96233723085
Dr. Nir Weinberger, New Faculty Member

Research Areas:

Information theory and statistical communication, high-dimensional statistics

Research Interest:

Learning theory in communication and information theory, analysis of iterative algorithms in statistics, nonparametric regression, large deviations bounds in information theory and analysis of Boolean functions.

Returning from a post-doc at MIT
Special tutorial -
An introduction to the Julia programming language: with examples for simulating quantum systems

Schedule Tuesday October 20

15:30 – 16:10 Introduction to Julia (by Chris Rackauckas from MIT)
16:10 – 16:20 Questions and open discussion / demonstrations
16:20 – 16:30 Break
16:30 – 17:10 The Julia quantum optics toolbox for open quantum systems (by PhD student Sutapa Gosh from Gadi Eisenstein’s group)
17:10 – 17:20 Questions and brainstorming: applications for research problems

https://technion.zoom.us/j/97588732215
20 Oct 2020 15:30 to 17:10
Georg Friedrich Bernhard Riemann (September 17, 1826 – July 20, 1866)

German mathematician who made lasting contributions to analysis, number theory and differential geometry, general relativity

Riemann zeta function

$$\zeta(n) = 1 + \frac{1}{2^n} + \frac{1}{3^n} + \ldots = \sum_{k=1}^{\infty} \frac{1}{k^n}$$

From Wikipedia, the free encyclopedia
הם מומרים "יש долוי буд"... זה לא תמי נבום...
מומון בין עולם חם שלב
בברכה איישת סփירי:
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