



**JOHN ATANASOFF SOCIETY  
OF AUTOMATICS AND INFORMATICS**

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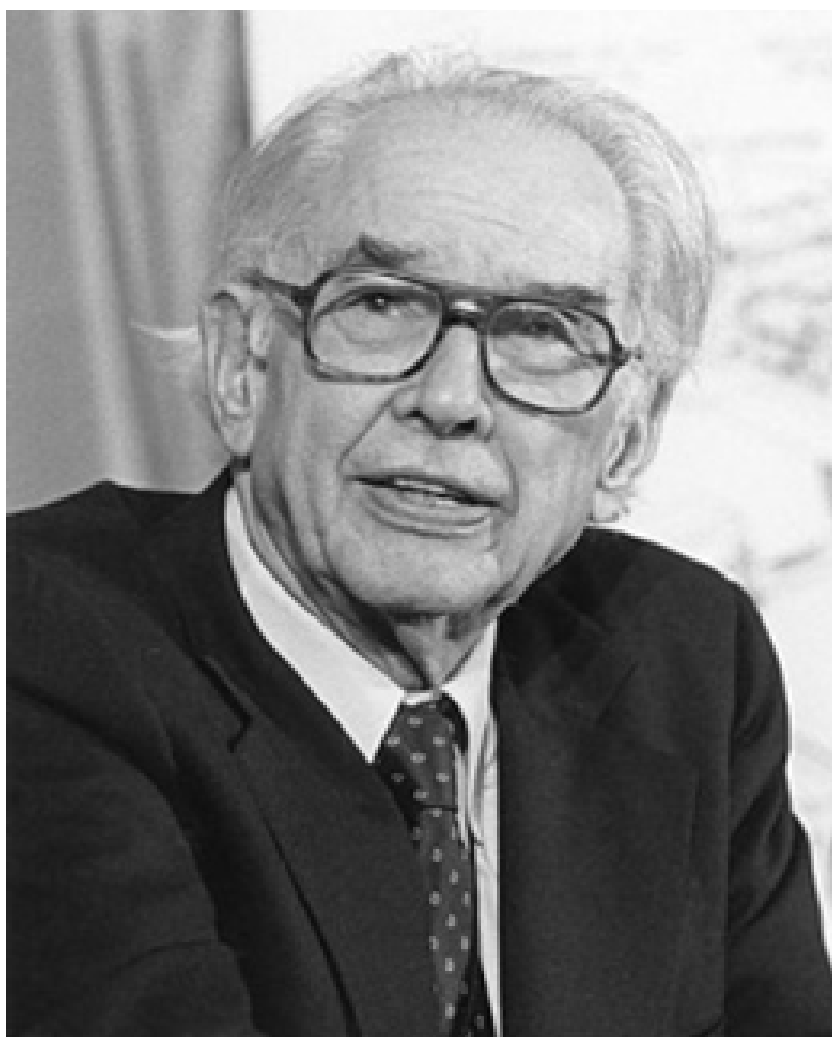
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R. PLEVNELIEV**

**OCTOBER 4th – PROFESSIONAL DAY OF BULGARIAN SPECIALISTS  
ON COMPUTERS, INFORMATION TECHNOLOGIES AND AUTOMATICS**

**INTERNATIONAL CONFERENCE  
AUTOMATICS AND INFORMATICS'2013**

**October 3-7, 2013, Sofia, Bulgaria**



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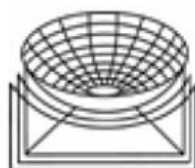
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## Предисловие

Традиционната ежегодна международна конференция "Автоматика и Информатика" 2013 се провежда на 3 и 4 октомври 2013 г. в Дома на науката и техниката, София. Тя е едно от основните мероприятия в дните на Джон Атанасов, които се провеждат под патронажа на Президента на Република България Росен Плевнелиев. Тази година конференцията е юбилейна - навършват се 110 години от рождението на Джон Атанасов. Организатори на конференцията са Съюзът по Автоматика и Информатика и Федерацията на Научно-Техническите Съюзи.

За специалистите по автоматично управление у нас конференцията е основен форум, на който се срещат специалисти от техническите университети в страната, изследователски групи от БАН, инженерингови организации и индустрията. Във формална и неформална обстановка се създават условия за обмен на информация за насоките на научно-изследователската работа на различни колективи, които често имат слаби контакти по между си. В секционните и общите дискусии се споделят мнения и оценки за тенденции и достижения по света, оценяват се възможностите за съвместни изследвания, набелязват се бъдещи сътрудничества по национални и международни проекти.

Конференцията има подчертано интердисциплинарен характер с изнасянето на доклади по автономни изчисления и управление в компютърни системи, бази данни и анализ на данни, диагностика и сигурност, електронно обучение, интелигентни системи, интернет и мрежови технологии, информационни технологии, моделиране и симулации, нелинейни системи за управление, робастно управление, системи за вземане на решения, системи за управление в индустрията, системи за управление на технологични процеси.

Пленарните доклади, които се изнасят тази година от акад. Благвест Сендов, акад. Кирил Боянов, акад. Васил Стурев, prof. Jacques Richalet, prof. František Čapkovič, prof. Carl Chang, prof. Otto Spaniol, prof. John Gustafson, представляват анализ на резултатите, постигнати от Джон Атанасов и тяхното отражение и влияние върху развитието на изчислителната техника в различни области от научното познание, както и задълбочени експертни оценки по основни проблеми на автоматиката и информатиката.

В работата на конференцията е предвидено изнасянето на 79 научни доклада, от които 8 пленарни и 71 секционни на общо 132-ма автори. Докладите са групирани в една пленарна и 10 специализирани сесии. Конференцията протича в четири потока с основна насоченост отбелязване на 110-та годишнина от рождението на Джон Атанасов, автоматика, информатика и съвременни методи и технологии. Традиционно конференцията се съпътства от Младежка сесия, организирана от проф. Петко Русков от СУ "Св. Кл. Охридски" на тема "Иновации и управление на бизнес процеси".

Всички доклади, публикувани в сборника на конференцията, са рецензирани от поне двама рецензенти от Международния Програмен Комитет, на членовете на който изказваме нашата и на Националния Организационен Комитет благодарност. В подготовката на материалите за печат взеха участие Е. Николов, К. Стоилова, Н. Г. Николова, на които сме благодарни за коректността, безупречните действия и приятната работна атмосфера, която създаваха неизменно.

Позволяваме си да изразим надеждата на Националния Организационен Комитет и на Международния Програмен Комитет, че материалите на Международната конференция "Автоматика и Информатика" 2013 ще се окажат полезни за участниците и ще съдействат ефективно за успешно продължаване на изследванията им, обогатени с нови идеи и решителност за достигане на нови резултати.

09.2013

София

Редактор

Проф. д-р Емил Николов



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