БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ

ИНСТИТУТ ПО МАТЕМАТИКА И ИНФОРМАТИКА

ГОДИШЕН ОТЧЕТ

2011 г.

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1.1. ИЗПЪЛНЕНИЕ НА ЦЕЛИТЕ И ОЦЕНКА НА ПОСТИГНАТИТЕ РЕЗУЛТАТИ В СЪОТВЕТСТВИЕ С МИСИЯТА И ПРИОРИТЕТИТЕ НА ИМИ–БАН

От създаването си през 1947 г. Институтът по математика и информатика на БАН (ИМИ–БАН) е водещ национален изследователски център в областта на математическите науки, информатиката и информационните технологии. Мисията на ИМИ–БАН се състои в:

- Развитие на фундаментални и приложни изследвания по математика и информатика в съответствие с националните и европейски приоритети и интегриране на ИМИ в европейското изследователско пространство.
- Провеждане на научни изследвания в областта на математически структури, математическо моделиране и математическа информатика, обогатяване на теоретичните основи по математика и информатика, които да доведат до иновационни приложения в други науки, в информационните и комуникационните технологии, индустрията и обществото;
- Приложение на математиката и информатиката в сферата на националните образователни програми и процеси на всички нива в страната;
- Издигане на ИМИ–БАН във водещ научно-изследователски център в Република България в областта на математиката и информатиката.

В съответствие с европейските приоритети и научно-изследователски програми, както и със световните тенденции за развитие на математиката и информатиката, ИМИ–БАН очерта следните приоритетни направления за изследване и развитие:

Математически структури: дискретни математически структури и приложения, диференциални уравнения, анализ, геометрия и топология;

Математическо моделиране: стохастика, изследване на операциите, числени методи и научни изчисления, теория на апроксимациите и основи на математическите модели;

Математическа информатика: математически основи на информатика, математическа лингвистика и обработка на знания, моделиране на софтуерни, когнитивни и информационни процеси;

Моделиране на процеси в сферата на образованието по математика и информатика.

Във връзка с гореизброените стратегии и приоритети, през 2011 г. в ИМИ–БАН бяха извършени структурни промени. С решение на Научния съвет на института (Протокол № 5 от 18.03.2011 г.) броят на секциите на ИМИ–БАН беше намален от 20 на 14. В момента сътрудниците на ИМИ–БАН са обединени в следните 14 секции:

- Алгебра и логика
- Анализ, геометрия и топология
- Диференциални уравнения и математическа физика
- Вероятности и статистика
- Изследване на операциите
- Изчислителна математика
- Математическо моделиране
- Биоматематика
- Математически основи на информатиката
- Математическа лингвистика
- Информационни системи и лаборатория „Цифровизация на научното и културно наследство”
- Софтуерни технологии

- Информационно моделиране
- Образование по математика и информатика

Преструктурирането на ИМИ–БАН доведе до създаване на по-добри възможности за професионална реализация на учените в съответствие с европейските критерии за значимост на науката.

Положителната оценка, която може да се даде за дейността на ИМИ–БАН през 2011 г., е на базата на качеството на постигнатите научни и научно-приложни резултати, обхванати в големия брой публикации и цитирания, в активното участие на учените в мултинародни и национални проекти, във формиране на иновационни инициативи за съвместни образователни програми с университети в страната и чужбина и създаване на съвместни екипи за приложни изследвания със значимо отражение върху обществения живот.

1.2. РАЗВИТИЕ НА ИМИ–БАН И ПРИОРИТЕТИ ЗА ПЕРИОДА 2013–2015

В съответствие със стратегиите, приоритетите и традициите на ИМИ–БАН, през периода 2013–2015 г. институтът ще работи за осъществяване на следните цели:

- Да съхрани и развие научния капацитет в областта на фундаменталните изследвания по математика и информатика като основа за развитие на иновационни приложни изследвания;
- Да стимулира развитието на информационните и комуникационни технологии, на интердисциплинарни научни изследвания в приоритетни области от естествените науки (биология, екология и др.), медицината и инженерните науки, свързани с подобряването на качеството на живота;
- Да съхрани и разшири връзките си с университетите в страната за постигане на качествено и конкурентноспособно обучение по математика и информатика с цел привличане на квалифицирани млади хора за научни и научно-приложни изследвания;
- Да съхрани и развие дългогодишните традиции в откриването и развитието на млади таланти в областта на математиката и информатиката за създаване на следващото поколение учени;
- Да развие и задълбочи връзката между научни изследвания и приложенията им в иновативната индустрия, прилагаща математически методи и модели, както и съвременни информационни и комуникационни технологии в развойната си дейност.

1.3. ВРЪЗКА С ПОЛИТИКИТЕ И ПРОГРАМИТЕ ОТ ПРИЕТИТЕ ОТ ОС НА БАН „СТРАТЕГИЧЕСКИ НАПРАВЛЕНИЯ И ПРИОРИТЕТИ НА БАН ПРЕЗ ПЕРИОДА 2009–2013”

През 2011 г. ИМИ–БАН продължи дейността си, придържайки се към идеите залегнали в документа „Стратегически направления и приоритети на научната политика на БАН през периода 2009–2013 г.”, приет от ОС на БАН на 23.03.2009 г. Тази дейност се изрази в:

- Двустранни и многостранни договорни контакти с десетки научни центрове в Европа и света. Пълноценното интегриране в Европейското изследователско пространство се разглежда от ръководството на ИМИ като един от основните подходи за превръщане на науката в основна двигателна сила за развитие на националната икономика и на общество, базирано на знания.

- Активно участие в различни форми на преподаване в университетите в и извън страната. Учените на ИМИ участват на всички нива в образователния процес по математика и информатика в страната. Високият научен потенциал на сътрудниците на института е предпоставка за качествено и конкурентноспособно обучение и подготовка на висококвалифицирани специалисти. Този научен капацитет на ИМИ беше забелязан и оценен от проведения международен одит през 2009 г., в който заключението на водещи европейски учени е: *„The institute has, in many departments, an excellent and internationally recognized scientific output, many citations and many members are well known in the world of mathematics.";*

- Активно участие в информационното, експертно и оперативно обслужване на българската държава и общество. Учени от института са членове на множество съвети, комисии и други експертни органи на външни за БАН институции (правителствени и неправителствени), фондации, организации, издателства и др.

1.4. ИЗВЪРШВАНИ ДЕЙНОСТИ ВЪВ ВРЪЗКА С ТОЧКА 1.3.

През 2011 г. основните дейности на ИМИ, свързани с предходната точка 1.3, бяха обхванати в няколко направления:

- ИМИ–БАН има дългосрочни, двустранни и многостранни споразумения за научно сътрудничество с над 40 научни центрове и университети в Европа и в света – в Белгия, Великобритания, Германия, Индонезия, Испания, Италия, Китай, Латвия, Норвегия, Пакистан, Русия, Сърбия, Украйна, Франция, Швейцария, Швеция, Япония и др. С Университета на Хаселт, Белгия, е учредена съвместна магистърска програма „Бизнес информатика". Да споменем и действащите в момента 21 проекта в рамките на ЕБР между БАН и академии и научни институции от 12 страни.

- ИМИ–БАН има дългосрочна стратегическа визия за иновационен подход в системата на образовнието на всички нива. Институтът има споразумения за сътрудничество с почти всички университети в страната за участие в техните образователни програми по математика и информатика, както и за съвместно ръководство на дипломанти, за съвместно обучение на магистри и докторанти. Такива съвместни магистърски програми са: „Управление на проекти в информационните технологии" и „Приложна статистика" с Нов Български Университет, „Цифровизация и цифрови библиотеки" с Държавния Университет по библиотекознание и информационни технологии. В рамките на тези споразумения се осъществяват краткосрочни и пост-докторантски специализации в ИМИ.

- Учени от ИМИ–БАН са членове на 4 национални комисии към Министерство на образованието, младежта и науката, на Постоянната и временната експертни комиисии по математика и информатика към Фонд „Научни изследвания", на експертни съвети към Министерство на транспорта, информационните технологии и съобщенията, Министерството на регионалното развитие и благоустройството, Министерство на външните работи, в съвети на фондации, издателства, културни институции и т. н.

По-подробна информация е дадена по-долу (виж т. 1.6 и 1.7).

1.5. ЕФЕКТ ЗА ОБЩЕСТВОТО ОТ ИЗВЪРШВАНИТЕ ДЕЙНОСТИ ПО ТОЧКА 1.4

ИМИ участва активно в развитието на информатиката с акцент върху компютърните, комуникационните и информационни системи и технологии с цел участие на страната в глобалната информационна общност. Тази активност осигурява пряк достъп до информационните масиви и запознаване с постиженията на водещите научни центрове в света във всички области на науката и човешкото познание.

ИМИ участва на всички нива в устойчивото развитие на научния потенциал в областта на математиката и информатиката: подготовка на бакалаври, магистри и докторанти чрез участие в образователните програми на университети и висши училища, подготовка на магистри, докторанти и студенти за научна работа чрез включването им в пряка научно-изследователска дейност, обучение и работа с изявени ученици за участие в международни олимпиади и състезания, и чрез създадения през 2000 г. Ученически институт по математика и информатика, обучение и преквалификация на учители за прилагане на иновативни методи в преподаването по математика и информатика. Това е важна общонационална дейност, тъй като по този начин се подготвя изграждането на висококвалифициран потенциал в българското общество. Международният одит оцени високо тази страна от дейностите на ИМИ: „*IMI makes a strong contribution to the extended education of young talented Bulgarians in mathematics”.*

1.6. ВЗАИМООТНОШЕНИЯ С ИНСТИТУЦИИ

През 2011 г. ИМИ активно се включи в информационно, експертно и оперативно обслужване на българската държава и общество. Тази дейност намери израз в конструктивни връзки с редица правителствени институции – министерства и национални агенции:

- Министерство на образованието, младежта и науката
- Министерство на отбраната
- Министерство на регионалното развитие и благоустройството
- Министерство на транспорта, информационните технологии и съобщенията
- Министерство на финансите
- Министерство на външните работи
- Министерство на вътрешните работи
- Държавна агенция по информационни технологии и съобщения

Признание за авторитета на ИМИ са преките контакти и съвместна работа с редица неправителствени изследователски и културни институции като

- Международна Фондация „Св. Св. Кирил и Методий”
- Фондация „Еврика”
- Фондация „Демократични традиции”
- Международна Фондация „Васил Попов”
- Фондация „Америка за България”
- Американска фондация за България
- Българската асоциация по моделиране и симулации „БУЛСИМ”
- Националната галерия за изящни изкуства
- Народна библиотека “Кирил и Методий”
- Национален исторически музей
- Главно управление на архивите

- Федерация на научно-техническите съюзи
- Съюз на българските читалища и мн. др.

1.7. ОБЩОНАЦИОНАЛНИ И ОПЕРАТИВНИ ДЕЙНОСТИ, ОБСЛУЖВАЩИ ДЪРЖАВАТА

През 2011 г. ИМИ съдейства за експертното присъствие на българската наука чрез участието на свои сътрудници в:

- Национална агенция по оценяване и акредитация към Министерски съвет
- Национална комисия за организиране и провеждане на националната олимпиада и националните състезания по математика за старша възраст (9-12 клас) към МОМН
- Национална комисия по информатика при МОМН
- Национална комисия за провеждане на олимпиада и национално състезание по математическа лингвистика при МОМН
- Експертна комисия „Информационно общество" при МОМН
- Експертна комисия по математика и информатика на Фонд „Научни изследвания"
- Експертен съвет по въпросите на Интернет-управлението към Министерство на транспорта, информационните технологии и съобщенията
- Междуведомствен съвет по пространствени данни към Министерство на транспорта, информационните технологии и съобщенията
- Национален съвет по стандартизация на географските имена към Министерство на регионалното развитие и благоустройството
- Комисия по антарктическите наименования към Министерство на външните работи
- Алианс за стратегии и развитие на информационното общество

През 2011 г. учени от ИМИ са участвали в изготвяне на:

- над 90 на брой концепции, програми, експертни оценки, становища и рецензии, в т. ч. за научни степени и академични звания в страната и чужбина;
- над 120 рецензии на научни статии, представени за печат в наши и чуждестранни списания;
- 77 реферати за "Zentralblatt für Mathematik" и "Mathematical Reviews".

ИМИ има ясна стратегия за съвместна работа и връзки с иновативната индустрия. През 2011 г. институтът поддържаше активни контакти (чрез ИКТ–клъстер) с водещи в областта на информационните и комуникационни технологии фирми и университети в страната за разработване на проекти с пряка ориентация към индустрията. През 2011 г. ИМИ стана член на *Българската Стопанска Камара*. ИМИ–БАН е един от инициаторите за създаване на Научен парк съвместно с Мусала Софт, с Държавния Университет по библиотекознание и информационни технологии и други научни институции.

На 26 май 2011 г. беше проведена *Юбилейна сесия, посветена на 50 години от създаването на първия изчислителен център в България*. Сесията беше организирана съвместно с Института по информационни комуникационни технологии при БАН и ФМИ при СУ „Св. Кл. Охридски". Официални гости на мероприятието бяха Президентът на Република България г-н Георги Първанов и Председателят на Народното събрание г-жа Цецка Цачева. Събитието беше широко отразено в медийното пространство.

На 28 септември 2011 г. се проведе среща на Министъра на образованието, младежта и науката проф. Сергей Игнатов с учени от ИМИ–БАН. На срещата бяха представени водещите направления, в които институтът бележи своите неоспорими успехи, международните и национални проекти, по които се работи в момента, някои от технологичните разработки на ИМИ по ред приоритетни за Европейския съюз теми. Министър Игнатов даде много висока оценка за дейността на ИМИ. **„***Българската математика е световна марка и е нормално министрите на образованието да идват тук да си сверяват часовника. Дълбок поклон"*, каза пред журналистите министър Игнатов.

2. РЕЗУЛТАТИ ОТ НАУЧНАТА ДЕЙНОСТ ПРЕЗ 2011 Г.

2.1. НАУЧНО ПОСТИЖЕНИЕ

През 2011 г. излезе монографията "Nonlinear Waves. An Introduction" с автори акад. Петър Попиванов и проф. Анжела Славова в престижното международно издателство World Scientific – New Jersey, London, Singapore. В нея се изследват подробно няколко уравнения на математическата физика, като основното ударение е поставено върху математическите изследвания – теоремите за съществуване и единственост, особеностите на решенията и тяхната класификация, както и взаимодействието на две вълни. Монографията предлага и числени методи за решаването на някои уравнения с клетъчно невронните мрежи (CNN).

Изпълнител от ИМИ–БАН: секция „Диференциални уравнения и математическа физика"; водещи изпълнители: проф. дмн Анжела Славова, акад. Петър Попиванов

2.2. НАУЧНО–ПРИЛОЖНО ПОСТИЖЕНИЕ

В рамките на проект за научни изследвания на тема „Машинно извличане на лингвистични знания" са проведени изследвания в областта на машинното откритие в лингвистиката. В последните две години са публикувани две монографии в Англия и Германия

- Vladimir Pericliev (2010) *Machine-Aided Linguistic Discovery: An Introduction and Some Examples*. London & Oakville: Equinox, ix+330 pp. ISBN 978 1 84553 660 2;
- Vladimir Pericliev (2011) *Profiling Language Families by their Kin Term Patterns: A Computational Approach*. Munich: LINCOM Europa, pp. 177, ISBN 9783862880546.

Едната от книгите е основополагаща и представлява първата монография в тази нова област. Разработени са системи за откритие в различни лингвистични дисциплини (семантика, типология, историческа граматика и др.). В областта на типологията е създадена програма, която описва откритията си във формата на цялостен текст (на английски език) и два такива текста са публикувани в списание без допълнителна редакция от човек. Това е първата програма, генерирала научна статия. В областта на историческата граматика машинно е генерирана хипотезата за генетична връзка между езиково семейство, говорещо се в Южна Америка на Атлантическия океан, и езиково семейство, говорещо се в повечето острови в Тихия океан. Получените резултати са важни не само за лингвистиката и компютърната лингвистика, но и за други научни области като генетика, археология, антропология и предистория. Тези изследвания по машинно откритие са рецензирани положително във водещи списания.

Изпълнител от ИМИ–БАН: секция „Математическа лингвистика", водещ изпълнител доц. д-р Владимир Периклиев.

2.3. СПРАВКА ЗА ПУБЛИКАЦИОННАТА ДЕЙНОСТ ПРЕЗ 2011 Г.

№	Видове публикации	Излезли от печат (брой)	Приети за печат (брой)
1	Публикации, реферирани и индексирани в световната система за реферирane, индексиране и оценяване	199	69
2	Публикации, включени в издания с импакт фактор IF (Web of Science) или импакт ранг SJR (SCOPUS) **(включени в ред 1)**	103	51
3	Публикации без реферирane и индексиране в световната система за реферирane, индексиране и оценяване (в световни вторични литературни източници)	118	17
	Общо: ред 1 + ред 3	**317**	**68**
4	Монографии	**6**	**1**
5	Учебници, учебни помагала, публицистика, научно-популярни произведения, художествени творби от всякакъв вид	**51**	**3**

2.4. СПРАВКА ЗА ЦИТИРАНИЯТА ПРЕЗ 2011 Г.

Година на публикуване на цитираните статии	Брой цитирани статии	Брой цитиращи статии, публикувани през 2011 г.
1966 – 1989	37	41
1990	6	7
1991	5	5
1992	4	7
1993	10	14
1994	10	40
1995	4	9
1996	14	30
1997	10	14
1998	19	47
1999	13	32
2000	13	24
2001	16	46
2002	12	23
2003	27	43
2004	31	45
2005	22	40
2006	28	44
2007	31	44
2008	32	50
2009	35	61
2010	31	75
2011	14	18
ОБЩО:	**424**	**759**

2.5. ДРУГИ ДЕЙНОСТИ НА ИМИ

ИМИ има 21 проекта, финансирани от Фонд „Научни изследвания” и други ведомства, като в голяма част от тях участват чуждестранни водещи учени в съответните изследователски области.

В ИМИ действат 14 научни семинара. Като правило гостуващите на ИМИ учени от чужбина изнасят доклади на тези семинари.

По традиция всяка година през м. декември се провежда отчетна годишна сесия на ИМИ; през 2011 г. тя премина под мотото *„100 години от преименуването на Българското книжовно дружество в Българска академия на науките”*. Всяка секция на ИМИ организира самостоятелно сесията си. Секция „Анализ, геометрия и топология” проведе допълнително специална научна сесия, посветена на 125-та годишнина от рождението на акад. Любомир Чакалов. Секция „Образование по математика и информатика” проведе двудневен Национален семинар на тема „Изследователски подход в математическото образование”. Секции „Информационни системи”, „Математическа лингвистика” и „Софтуерни технологии” проведоха съвместна годишна научна сесия.

3. МЕЖДУНАРОДНО НАУЧНО СЪТРУДНИЧЕСТВО

3.1. В РАМКИТЕ НА ДОГОВОРИ И СПОГОДБИ НА НИВО АКАДЕМИЯ

Сътрудничеството на ИМИ–БАН по общоакадемичната спогодба (ЕБР) включва 21 теми с 12 страни, в това число с: Белгия – 1 тема, Германия – 1 тема, Израел – 4 теми, Италия – 1 тема, Китай – 1 тема, Полша – 1 тема, Румъния – 2 теми, Русия – 5 теми, Украйна – 1 тема, Унгария – 3 теми, Франция – 1 тема, Чехия – 1 тема.

3.2. В РАМКИТЕ НА ДОГОВОРИ И СПОГОДБИ НА ИНСТИТУТСКО НИВО

ИМИ има сключени договори за съвместни научни изследвания и обмен на специалисти с над 40 университети и научни центрове в Белгия, Германия, Италия, Русия, Франция, Швеция, Япония и др. Тези договори се финансират от участващите научни институции.

През 2011 г. по покана на ИМИ са гостували 31 чуждестранни учени по съвместни проекти от ЕБР, институтски договори и по покана на института; ако към тях се добавят чуждестранните участници в организираните от ИМИ конференции, броят им ще надхвърли 100.

ИМИ е организатор и съорганизатор на 14 международни конференции (10 от които са проведени в България) и на 10 национални конференции и семинари.

През 2011 г. от сътрудници на ИМИ са изнесени над 250 научни доклада в общо 112 престижни национални и световни научни форуми и конференции.

Учени от ИМИ участват в международни редколегии на 53 научни списания, издавани у нас и в чужбина; в 23 програмни комитети на престижни международни конференции.

Експертното присъствие на българската наука се изразява чрез участието на учени от ИМИ в престижни международни професионални организации като:

- Международна федерация по обработка на информацията (IFIP):
  Технически комитет TC 2 „Софтуер: теория и практика”;

Технически комитет ТС 3 „Образование”, работна група WG 3.5 „Информатика и компютърни технологии в началното образование”;

- Международен математически съюз (IMU): Национален комитет по математика, Международна комисия по математически инструкции (ICMI);
  Световна федерация на националните математически състезания (WFNMC), работна група към ICMI
- Международен съюз по радионауки (URSI): Комитет за България и Комисия С „Радио-комуникационни системи и обработка на сигнали”

Международни проекти на ИМИ–БАН:

- Сътрудници на секции „Изследване на операциите”, „Образование по математика и информатика” и „Информационно моделиране” участват в работата по проект от 7РП FIBONACCI;
- Сътрудници на секции „Информациионни системи” и „Математическа лингвистика” участват в работата по проекти от 7РП OpenAIRE, OpenAIREplus и EuDML;
- Сътрудници на секции „Анализ, геометрия и топология”, „Биоматематика” и „Образование по математика и информатика” участват в работата по проект на ЕК (програма Коменски „Учене през целия живот”) DynaMAT;
- Сътрудници на секциите „Математически основи на информатиката” и „Информационни системи” участват в европейски проект (програма за регионално развитие на Югоизточна Европа) MONITOR II;
- Сътрудници на секции „Математическо моделиране”, „Вероятности и статистика”, „Алгебра и логика” и „Математически основи на информатиката” участват в работата по европейски проект ТЕМПУС.
- Сътрудници на секция „Изчислителна математика” участват в работата по проект с ОИЯИ в Дубна, Русия
- От 2002 г. насам в ИМИ действа Център за отлични постижения по приложения на математиката (*Center of Excellence for Application of Mathematics*) по програма на немската фондация за академичен обмен DAAD за реконструкция на Югоизточна Европа

Участие в международни научни мрежи и във външни за ИМИ международни проекти:

- Сътрудници на секции „Изследване на операциите”, „Математически основи на информатиката”, „Математическа лингвистика” и „Софтуерни технологии” участват в научна мрежа ETN-TRICE: European Thematic Network for Teaching, Research, Innovation in Computing Education съвместно с над 80 партньори от европейските страни
- Сътрудници на секция „Математическа лингвистика” участват в международна мрежа Europeana v1.0 с партньори от 30 страни в Европа
- Сътрудници на секции „Математическа лингвистика” и „Математически основи на информатиката” участват по проект на 7РП SISTER съвместно с Държавния Университет по библиотекознание и информационни технологии;
- Сътрудници на секция „Диференциални уравнения и математическа физика” участват в работата по проект на НАТО с Университета на Флоренция, Италия, и по DFG проект с Университета на Дрезден, Германия
- Сътрудници от секция „Информационно моделиране” участват в работата по проект на 7РП (програма eContentplus) Share.TEC

Измежду изброените по-горе проекти на ИМИ предлагаме следните *три* като най-значими международно финансирани проекти:

- FIBONACCI „Разпространяване на изследователския подход при обучението по математика и природни науки"; № 244684, Coordination and Support Action – CAPACITIES – SCIENCE IN SOCIETY
  Основната цел на проекта е в европейските училища широко да се разпространи изследователският подход при обучението по математика и природни науки. Предвижда се сега съществуващите институции със значителен опит в този вид обучение да подпомагат създаването и укрепването на други подобни центрове, които след това също да се включат в изграждането на нови центрове. Центровете ще подготвят бъдещи учители и ще преквалифицират вече действащи учители за прилагане на изследователския подход при обучението по математика и природни науки. http://www.math.bas.bg/moi/Fibonacci/
  Координатор от ИМИ: акад. Петър Кендеров

- OpenAIRE: „Инфраструктура за изследователски свободен достъп в Европа", FP7-INFRASTRUCTURES-2009-1
  OpenAIRE, инфраструктура от свободно достъпни информационни хранилища, ще предостави на учените, бизнеса и гражданите на ЕС свободен и безплатен достъп онлайн до финансираните от ЕС научно-изследователски материали и по-специално до резултатите на учените, получили финансиране по 7РП и Европейския съвет за научни изследвания, в областта на здравеопазването, енергията, околната среда, информационните и комуникационните технологии, научно-изследователските инфраструктури, социалните науки, хуманитарните дисциплини и науката за обществото. http://www.openaire.eu/
  Координатор от ИМИ: проф. Петър Станчев

- EuDML: „Европейска цифрова библиотека по математика"
  № 250503, ICT Policy Support Programme CIP-ICT-PSP.2009.2.4
  Целта на проекта е да създаде обща инфраструктура за безпроблемна навигация, търсене и взаимодействие в рамките на плътна мрежа от разпределено валидирано многоезично математическо съдържание в цифрова форма, което да е достъпно в цяла Европа и по този начин да направи математиката лесно достъпна, както и да задоволи изискването за надежден и дългосрочен достъп до математическите изследвания. http://www.eudml.eu/
  Координатор от ИМИ: проф. Радослав Павлов

При преценката на състоянието и перспективите за международно сътрудничество трябва да отбележим следното: ИМИ развива активно международно сътрудничество и се вписва все по-добре в проявите на световната научна общност.

4. УЧАСТИЕ В ПОДГОТОВКАТА НА СПЕЦИАЛИСТИ

През 2011 г. в ИМИ са обучавани 25 докторанти, от тях са отчислени 7 и новозачислени 7 докторанти. Към 31.12.2011 г. има 25 докторанта: 4 редовни, 11 задочни и 10 на самостоятелна подготовка. Защитени са 4 дисертации, две от които в Университета на Хаселт, Белгия, и една дисертация на докторант от Япония. Учени от ИМИ осъществяват ръководство на 11 докторанти в други организации, включително и в чужбина.

ИМИ участва в бакалавърската и магистърската степен на обучение чрез висши училища в страната в рамките на сключени двустранни договори за сътрудничество

или чрез свои специалисти: Софийски Университет – ФМИ и други факултети, Пловдивски университет "Паисий Хилендарски", Техническите университети в София и Варна, Нов Български Университет, Югозападен университет "Неофит Рилски" Благоевград, Икономически Университет Варна, Държавен Университет по библиотекарство и информационни технологии, Русенски Университет „Ангел Кънчев", ВСУ „Любен Каравелов", Американски Университет в България, Колеж по телекомуникации и пощи София, УНСС, УАСГ и др. Учени от ИМИ участват като лектори в университети в чужбина: Abdus Salam School of Mathematical Sciences, Пакистан, AwesomeMath, University of Santa Cruz и Cornell University в САЩ, Университет Сараево в Босна и Херцеговина и др. Общият брой изнесени часове е: лекции – 4474 ч.; упражнения – 1000 ч.

Осъществено е ръководство на 15 дипломни работи, проведени са курсове (130 ч.) за следдипломна квалификация и специализация; сътрудници на ИМИ са взели участие като лектори в 7 национални и международни школи, като сред тях трябва да споменем интензивната шестседмична лятна програма Research Science Institute (RSI), която се провежда всяка година от Центъра за високи постижения в обучението (CEE) в Масачузетския технологичен институт (MIT) в САЩ.

В рамките на договор за сътрудничество с Нов Български Университет има две магистърски програми: „Приложна статистика" и „Управление на проекти в информационните технологии".

5. ИНОВАЦИОННА ДЕЙНОСТ

5.1. ОСЪЩЕСТВЯВАНЕ НА СЪВМЕСТНА ИНОВАЦИОННА ДЕЙНОСТ С ВЪНШНИ ОРГАНИЗАЦИИ И ПАРТНЬОРИ

Традиционно сътрудниците на ИМИ участват в подготовката и научното обслужване на извънкласната дейност в училище по математика, информатика и информациони технологии и математическа лингвистика на регионално, национално и международно ниво.

През 2011 г. участието на ИМИ се изразяваше в:

- Пряка работа с учители от страната за въвеждане на иновационни методи в преподаването по математика и информатика. Сътрудници на секции „Образование по математика и информатика" и „Изследване на операциите" са провели 6 работни срещи и семинари в рамките на европейски проект FIBONACCI с учители от Благоевград, Варна, Пловдив, София, Стара Загора. Сътрудници на секция „Образование по математика и информатика" са участвали в журита на:
  - Конкурс за учителски проект „Изследователски подход в образованието по математика чрез използване на софтуер за динамични конструкции"
  - Конкурс „Математически етюди". 40 Пролетна конференция на СМБ, 2011
  - Конкурс „Да творим в стила на Ешер", Европейска нощ на учените, 23.09.2011.
- Подготовка на състезания и олимпиади на национално ниво по математика, по информатика и по математическа лингвистика: Зимни състезания по математика, информатика и математическа лингвистика, Пролетни турнири по математика и по информатика, Есенни турнири по математика и по информатика и информационни технологии, Коледен турнир по математика, Турнир по математика и информатика "Черноризец Храбър" и много други.

През 2011 г. националните отбори по математика на България постигнаха отлични успехи:

– на *Международната олимпиада по математика* (Холандия) българският отбор спечели 2 сребърни и 3 бронзови медала;

– на *Балканската олимпиада по математика* (Румъния) българският отбор спечели 1 златен, 4 сребърни и 1 бронзов медали;

– във *Всерусийската олимпиада по математика* българският отбор спечели 5 награди;

– на *Младежката Балканска Олимпиада по Математика* (Кипър) българските състезатели спечелиха 2 златни и 4 сребърни медали и заеха първо място в отборното класиране.

Постиженията на националните отбори по информатика в международни състезания през 2011 г. са:

– *Международна олимпиада по информатика* (Тайланд) – 1 златен, 1 сребърен и 2 бронзови медала;

– *Балканска олимпиада по информатика* (гр. Бистрица, Румъния) – 1 златен, 2 сребърни и 1 бронзов медал, първо място в неофициалното отборно класиране по точки.

– *Балканска младежка олимпиада по информатика* (гр. Бистрица, Румъния), 1 златен, 2 сребърни и 1 бронзов медал; първо място в неофициалното отборно класиране по точки.

– *Международен турнир по информатика*, гр. Шумен, България, 25–27 ноември 2011. Участваха 6 страни. Българският отбор има 3 сребърни и 3 бронзови медала; четвърто място в неофициалното отборно класиране.

- Работа с талантливи ученици в областта на математическата лингвистика и подготовкатата им за участие в Националната и Международната олимпиади по лингвистика.
- Научно обслужване дейностите на Ученическия институт по математика и информатика (УчИМИ): рецензиране на ученически проекти, журиране на конкурсни сесии на УчИМИ, четене на лекции на летни изследователски школи за ученици и учители и ръководство на ученически проекти на тези школи.

5.2 ПОДГОТОВКА ЗА ТРАНСФЕР НА ТЕХНОЛОГИИ

През 2011 г. в ИМИ–БАН беше подготвен проект за участие в конкурса BG161PO003-1.2.02 „Създаване на нови и укрепване на съществуващи офиси за технологичен трансфер” по оперативна програма „Развитие на конкурентността на българската икономика 2007-2013 г.” на Европейския фонд за регионално развитие към Министерство на икономиката, енергетиката и туризма. Темата на проекта е „Офис за трансфер на иновации и информационни технологии в управлението, икономиката, образованието и културата”. Проектното предложение премина успешно предварителния конкурентен подбор. Основните дейности на предлагания офис за трансфер на технологии са интензификация на стратегическото сътрудничество с големи предприятия и ведомства за разработване на съвместни иновационни проекти, създаване на среда за взаимодействие с малки и средни предприятия, участие в българския ИКТ–клъстер, включване на националната и партньорска мрежа на ИМИ–БАН в процеса на трансфер на технологии и др. Основните очаквани резултати от проекта включват развитие на иновационния потенциал, научно-приложната и развойна дейност на ИМИ и ориентирането им към ключови сектори на управлението, икономиката, образованието и културата.

ИМИ–БАН участва в същия конкурс с още един проект на тема „Създаване на офис за технологичен трансфер „Централна Северна България", съвместно със Сдружение „Териториална организация на научно-техническите съюзи" в гр. Велико Търново, Федерация на научно-техническите съюзи в София, Институт по системно инженерство и роботика при БАН. И вторият проект премина успешно първия етап на предварителния конкурентен подбор.

6. СТОПАНСКА ДЕЙНОСТ

6.2. ОТДАВАНЕ ПОД НАЕМ НА ПОМЕЩЕНИЯ И МАТЕРИАЛНА БАЗА

През 2011 г. ИМИ продължи следните тристранни договори (ИМИ, ЦУ на БАН, наемател):

- договор за отдаване на бюфета под наем. Получаваният наем не е висок, но този договор по принцип преследва социален, а не финансов ефект;
- договор за отдаване под наем на една стая и едно складово помещение на "Деметра" ООД;
- договор за отдаване едно помещение под наем на фирма "ABS"-Ltd;
- договор за отдаване на две помещения под наем на фирма "РЕГАЛИЯ";
- договор за отдаване на две помещения под наем на фирма "ГАМА КОНСУЛТ";
- договор за отдаване едно помещение под наем на фирма "ИНФОЕЛЕКТРОНИКА";
- договор за отдаване едно помещение под наем на списание "МАТЕМАТИКА".

7. АНАЛИЗ НА ФИНАНСОВОТО СЪСТОЯНИЕ НА ИМИ

С бюджетната субсидия за 2011 г. бяха осигурени средства в размер на 70 % от плановия фонд Работна заплата, осигурителни вноски, обезщетения по Кодекса на труда, стипендии за редовните докторанти и за процедури за придобиване на научни степени и заемане на академични длъжности в размер, определен от Общото събрание на БАН. Поради недостига на средства за последното тримесечие на 2011 г. се наложи да се премине към намалено работно време или ползване на неплатен отпуск. От собствени средства бяха платени разходите за електроенергия, топлоенергия, вода и абонаментно поддържане на сградата.

През 2011 г. постъпиха средства от Фонд „Научни изследвания" в размер на 168 522 лв. Получени бяха средства по договори:

- с Нов Български Университет за обучение на магистри;
- с Министерство на регионално развитие и благоустройство за съфинансиране по ОП "Югоизточна Европа"
- от обработка на ведомости за заплати с програмния продукт "Фикс";
- за издаване на списанията "Сердика математическо списание" и "Сердика списание по информатика";
- от европейски проекти;
- от провеждане на национални и международни конференции и др.

8. СЪСТОЯНИЕ И ПРОБЛЕМИ НА ИМИ В ИЗДАТЕЛСКАТА И ИНФОРМАЦИОННАТА ДЕЙНОСТ

8.1. БИБЛИОТЕКА

През изминалата 2011 год. в библиотеката на ИМИ намаля чувствително получаването на нова литература поради финансовите проблеми на БАН. Освен свитият абонамент на периодични издания, намаляха и списанията, получавани по книгообмен поради

невъзможността да се поемат пощенските разходи за тяхното изпращане. Фондът на библиотеката се попълваше главно от дарения на книги и списания, в това число и от частни дарения. Той достигна общо 92 215 тома, като е нарастнал с 1 217 тома Регистрираните читатели на библиотеката са 1 312 души, от тях повечето са външни. Затова се обмисля въвеждането на такса за читатели извън БАН. Посещенията в библиотеката са общо 8 920, от които 6518 в читалнята. През тази година бяха раздадени общо 18 200 тома, като 1 546 тома са заети за дома. За читателите от ИМИ са направени 9 000 копирни страници. По линия на междубиблиотечно заемане са изпълнени 74 поръчки.

През 2011 година завърши цялостната проверка на фонда на библиотеката. Неговото състояние е добро, като се изключи фактът, че списанията от последните години не са подвързвани. Предстои да се направи списък и да се отчислят всички липси и някои от старите реферативни издания, изчерпали актуалността си. Остава проблемът с недобросъвестните читатели от ИМИ, заминаващи в дългосрочна командировка или постоянно пребиваващи в чужбина (има невърнати книги от 20 г.). Друг постоянен проблем за библиотеката е недостигът на място за съхранение на библиотечните единици. Колективът на библиотеката се старае с постоянно пренареждане, сместване и сортиране да уплътнява все по-добре пространството.

Обновеният сайт на библиотеката дава възможност да се правят онлайн справки както в системата на БАН, така и извън нея.

8.2. ИЗДАТЕЛСКА ДЕЙНОСТ

През 2011 г. в ИМИ–БАН бяха издадени:

- 3 броя на сп. “SERDICA Mathematical Journal” (с международна редколегия);
- 3 броя на сп. “SERDICA Journal of Computing (с международна редколегия);
- 4 броя на сп. “Fractional Calculus&Applied Analysis” (с международна редколегия);
- 4 броя на сп. „Математика и информатика;
- 4 броя на сп. „Математика+”;
- 8 броя препринти на ИМИ.

ИМИ участва в издаването на сп. „Mathematica Balkanica” чрез Националния комитет по математика при Международния математически съюз; списанието е издание на Mathematical Society of South-Eastern Europe (MASSEE).

ПРИЛОЖЕНИЕ 1: ПУБЛИКАЦИОННА ДЕЙНОСТ

П1.1. СПИСЪК НА ПУБЛИКАЦИИТЕ, РЕФЕРИРАНИ И ИНДЕКСИРАНИ В СВЕТОВНАТА СИСТЕМА ЗА РЕФЕРИРАНЕ, ИНДЕКСИРАНЕ И ОЦЕНЯВАНЕ

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П1.2. СПИСЪК НА ПУБЛИКАЦИИТЕ, ВКЛЮЧЕНИ В ИЗДАНИЯ С ИМПАКТ ФАКТОР (IF, WEB OF SCIENCE) ИЛИ ИМПАКТ РАНГ (SJR, SCOPUS) – ЧАСТ ОТ СПИСЪК П1.1.

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П1.3. СПИСЪК НА ПУБЛИКАЦИИТЕ БЕЗ РЕФЕРИРАНЕ И ИНДЕКСИРАНЕ В СВЕТОВНАТА СИСТЕМА ЗА РЕФЕРИРАНЕ, ИНДЕКСИРАНЕ И ОЦЕНЯВАНЕ (В СВЕТОВНИ ВТОРИЧНИ ЛИТЕРАТУРНИ ИЗТОЧНИЦИ)

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ПРИЛОЖЕНИЕ 3. ТАБЛИЦАТА XLS