GFSNP 2023

The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023), dedicated to the respected mathematician Prof. Dr. Yilmaz Simsek on the occasion of his 60th anniversary, held at Sherwood Exclusive Lara Hotel in Antalya, TURKEY on March 11–13, 2023.

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The Symposium on Generating Functions of Special Numbers and Polynomials and their Applications · GFSNP

Prof. Dr. Yilmaz Simsek (was born in Elazığ–Turkey, on 25 October 1963), received the PhD degree in (Generalized Dedekind and Hardy sums) at Cukurova University Adana of Turkey. Professor Simsek's carrier has been started from Adana, Cukurova University, Mersin University, and now continue at Antalya, Akdeniz University. His research interests are "Modular Forms, p-adic Analysis, q-series, Special numbers and polynomials, Special Functions, Generating Functions, Dedekind and Hardy Sums, Umbral Algebra, and Umbral Analysis, Special Functions, Real and Complex Analysis, etc." In addition to writing hundreds of articles and book chapters in distinguished international journals of mathematical and engineering sciences, he has succeeded in making hundreds of conferences and presenting his work to the service of many researchers in the scientific world as his academic goal and philosophy of life. He has been invited to many scientific activities such as international conferences, seminars, visiting professor. He is referee and editor of many mathematical journals. He has founded the journal "Montes Taurus Journal of Pure and Applied Mathematics (ISSN: 2687-4814)".

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YILMAZ SIMSEK's Short CV:

Professor Yilmaz Simsek was born on October 25, 1963. He is married and has two daughters.

EDUCATION:

- PhD. Cukurova University (Adana-Turkey)-1993: (Generalized Dedekind and Hardy sums).
- M.Sc. Cukurova University (Adana-Turkey)-1990: (Hermitian Matrix Inequalities).
- B.Sc. Cukurova University (Adana-Turkey)-1987.
- Certificate/Diploma Teaching involving Courses in university pedagogy January 1988.

WORK EXPERIENCE:

- Member of the faculty, Department of Mathematics, Faculty of Science, University of Akdeniz since 2005
- Since 2012 Professor
- 2007 – 2012 Associate Professor
- 2005 – 2007 Assistant Professor
- 1993-2005 Member of the faculty, Department of Mathematics, Faculty of Arts and Sciences, Mersin University
- 1993 – 2005 Assistant Professor
- 1988 – 1993 Member of the faculty, Mersin Vocational High School, Cukurova University
- 1988 – 1993 Lecturer

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YILMAZ SIMSEK's Short CV (cont'd):

AWARDS:

- Science Award, Akdeniz University Science Antalya Turkey, Service and Encouragement Awards, November 2011.
- Jangjeon Mathematical Society award 2017, Korea
- Ranking of scientists in Turkish Institutions according to their Google Scholar Citations public profiles.

INTERNATIONAL JOURNAL HE FOUNDED:

- Montes Taurus Journal of Pure and Applied Mathematics ISSN: 2687-4814, https://mtjpamjournal.com.

CURRENT RESEARCH INTERESTS:

- Real and Complex Analysis and their applications
- Analytic Number Theory and its applications
- Modular Forms
- Elliptic Functions
- p-adic Numbers and their applications
- p-adic integrals and their applications
- p-adic analysis and p-adic Distribution
- Generating Functions and their applications
- Special numbers, Special Polynomials
- Special Functions
- Integral Equations and Transforms
- q-Series and q-Analysis
- Modular form and Elliptic functions associated with Dedekind sums and Hardy Sums, the finite sums
- Theta functions
- Families of Zeta type functions
- Dirichlet series and Lambert-type series
- Umbral Algebra and Umbral Analysis and their applications
- Combinatorial Analysis and their applications
- Probability Distribution functions and their Applications
- Computational Science and Engineering
- Computational Algorithms
- Algebra of the Lyndon words
- Linear Algebra and their applications
- De Bruijn sequences
- Generating functions and special functions associated with Superoscillations
- Applications of generating functions to areas such as the human ear and teeth

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YILMAZ SIMSEK's Short CV (cont'd):

Over and above, Professor Simsek continues to work as a referee and editor in many different national and international journals. Professor Simsek advises more than 30 graduate and doctoral students and continues to increase intensively. He provides trainings in many countries with the Erasmus exchange program and the Mevlana exchange program. As a Visiting Professor, Professor Simsek gives trainings and scientific studies in many countries. More than 300 articles and book chapters have been published, and he continues to work on these subjects either alone, either with students or with other international distinguished scientists. Professor Simsek has participated in more than 120 international symposiums and conferences and presented oral presentations in almost every part of the world and in most of the countries, despite the pandemic, he continues to intensify these oral presentations. In addition to these, Professor Simsek has organized many special workshops and has made very important contributions to many workshops and continues to do so. Professor Simsek has devoted his life to mathematics, and his only notable hobby is listening, studying mathematics or exploring new results. In this way, he has made it a philosophy of life that he is very peaceful and can do much more useful work for humanity. In conclusion, life is beautiful and meaningful doing and teaching math; for this purpose, it continues on its way tirelessly. With this philosophy of mathematics, Professor Simsek gave his two precious and beloved daughters, Associate Professor Dr. Burcin Simsek (Probability, Statistics and Biostatistics and their applications in medicine and other sciences) and Dr. Buket Simsek (Probability, Statistics and Biostatistics and their applications in medicine and engineering) has also chosen him as a colleague in different fields. He gained very deep knowledge from these two precious daughters. It is worth mentioning that the source of these successes is the tremendous and unforgettable support of his precious wife, Saniye Simsek. Professor Simsek sincerely believe that he will serve for many more years, and write more articles and books, thanks to the support and love of his family, whom he loves very much, the respect and support of his very valuable students, and all his distinguished friends around the world with whom Professor Simsek has collaborated and written articles. Further details about Professor Simsek's professional achievements and scholarly accomplishments, as well as honors, awards and distinctions, can be found at the following website: https://avesis.akdeniz.edu.tr/ysimsek.

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AIM AND SCOPE OF THE SYMPOSIUM:

The aim of the GFSNP 2023 symposium is to bring together leading scientists of the pure and applied mathematics and related areas to present their research, to exchange new ideas, to discuss challenging issues, to foster future collaborations and to interact with each other.

GFSNP 2023 symposium will take place in a **hybrid form** with **Physical** and **Virtual (Online)** participation.

GFSNP 2023 symposium welcomes speakers whose talk or poster contents are mainly related to the following areas:

- ❖ Various fields of Mathematics
- ❖ Mathematical Physics
- ❖ Mathematical Chemistry
- ❖ Mathematical biology and related areas such as Analysis
- ❖ Non-linear Analysis
- ❖ Number Theory
- ❖ Applied Algebra
- ❖ p-adic Analysis
- ❖ Special Functions
- ❖ q-Analysis
- ❖ Quantum physics
- ❖ Probability and Statistics
- ❖ Engineering and their applications
- ❖ Moment generating functions
- ❖ Generating functions of the special numbers and polynomials and their applications
- ❖ The family of zeta functions
- ❖ The family of Dirichlet type L-functions
- ❖ Generating function for generalized Fisher information measure
- ❖ Matrix models and generating functions associated with mathematical models and stochastic differential equations
- ❖ Generating function in graph theory
- ❖ Generating Functions in Engineering and in Applied Sciences
- ❖ Generating functions involving deviation generating function
- ❖ Survival function generating function
- ❖ Generating functions discusses a large number of applications in various disciplines including algebra, analysis of algorithms, chemistry, combinatorics, graph theory, number theory, reliability, epidemiology, bio-informatics, genetics, management, economics, and statistics.

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Scientific Committee

- Chandrashekar Adiga, India
- Elvan Akin, USA
- Mustafa Alkan, Turkey
- Hacer Ozden Ayna, Turkey
- Abdelmejid Bayad, France
- Naim L. Braha, Republic of Kosova
- Nenad P. Cakić, Serbia
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- Ahmet Sinan Cevik, Turkey
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- Daeyeoul Kim, South Korea
- Mokhtar Kirane, United Arab Emirates
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- Yilmaz Simsek, Turkey
- Burcin Simsek, USA
- Miodrag Spalević, Serbia
- Wolfgang Sprößig, Germany
- Hari M. Srivastava, Canada
- Marija Stanić, Serbia
- Richard Tremblay, Canada
- Mustafa Gürhan Yalçın, Turkey

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- Mustafa Alkan, Turkey
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- Mehmet Ali Özarslan, Northern Cyprus
- Ezgi Polat, Turkey
- Buket Simsek, Turkey
- Fusun Yalcin, Turkey

Heads of Organizing Committee

- Mustafa Alkan, Turkey
- Irem Kucukoglu, Turkey
- Ortaç Öneş, Turkey

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Invited Speakers of GFSNP 2023

- ❖ Chandrashekar ADIGA, (University of Mysore, INDIA)
- ❖ Abdelmejid BAYAD, (Université d'Evry Val d'Essonne Paris, FRANCE)
- ❖ Naim L. BRAHA, (University of Prishtina, REPUBLIC OF KOSOVA)
- ❖ Nenad P. CAKIC, (State University of Novi Pazar, Serbia)
- ❖ Ismail Naci CANGUL, (Bursa Uludag University, Turkey)
- ❖ Clemente CESARANO, (International Telematic University Uninettuno, Italy)
- ❖ Ahmet Sinan CEVIK, (Selcuk University, Turkey)
- ❖ Subuhi KHAN, (Aligarh Muslim University, INDIA)
- ❖ Taekyun KIM, (Kwangwoon University, South Korea)
- ❖ Daeyeoul KIM, (Jeonbuk National University, South Korea)
- ❖ Dmitry KRUCHININ, (Tomsk State University of Control Systems and Radioelectronics, Russia)
- ❖ Gradimir V. MILOVANOVIC, (Serbian Academy of Sciences and Arts, SERBIA)
- ❖ Jeffrey O. SHALLIT, (University of Waterloo, CANADA)
- ❖ Figen ÖKE, (Trakya University, TURKEY)
- ❖ Mehmet Ali ÖZARSLAN, (Eastern Mediterranean University, Northern Cyprus)
- ❖ Emin ÖZÇAĞ, (Hacettepe University, TURKEY)
- ❖ Tibor K. POGÁNY, (University of Rijeka, Croatia)
- ❖ Mustafa Gürhan YALÇIN, (Akdeniz University, Turkey)

PAPER SUBMISSION:

Symposium participants are encouraged to submit their work by sending an email to the symposium mail address: gfsnp.symposia@gmail.com.

After evaluation process by the scientific committee of the symposium, accepted Full-text Proceedings (at least 2 pages long) will be published in "Proceedings Book of the 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023)" (with ISBN number) and this book will be published after the symposium is over.

Hence, we would like to point out that at least one author of the accepted Full-text Proceedings must register and must attend to GFSNP 2023 for presenting their studies.

SUPPORTING JOURNALS:

The participants of the symposium GFSNP 2023 will have the right to submit their full manuscripts (compatible with the scope and publication policy of the corresponding journal) for peer review and possible publication in the following supporting journals:

- ❖ Montes Taurus Journal of Pure and Applied Mathematics (ISSN: 2687-4814) – [Indexed in Index Copernicus International (ICI Journals Master List), Google Scholar, Semantic Scholar, CiteFactor, Journal Factor (JF), and General Impact Factor (GIF)]

- ❖ Proceedings of the Jangjeon Mathematical Society (ISSN: 1598-7264) – [Indexed in Scopus]

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The symposium GFSNP 2023 is listing on the following Mathematics Calendars:

❖ American Mathematical Society (AMS) :: Mathematics Calendar,
See: https://www.ams.org/cgi-bin/mathcal/mathcalendar.pl
❖ European Mathematical Society (EMS) Events,
See: https://euromathsoc.org/events
❖ COMS, Conference Listings,
See: https://conference-service.com/conferences/tr/mathematics-research.html