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# 2018 KMJ Conference for Accreditation Strategies

Date\_ **January 8(Mon) ~ 10(Wed), 2018**

Place\_ **Kyungpook National University,  
Novotel Ambassador Daegu, Korea**

## Plenary Speakers

- **Uday Chand De**  
University of Calcutta, India
- **Haibao Duan**  
Chinese Academy of Sciences, China
- **Akio Kawauchi**  
Osaka City University, Japan
- **Hong Oh Kim**  
KAIST & UNIST, Korea
- **Hyung Sun Kim**  
Inha University, Korea
- **Sang Youl Lee**  
Pusan National University, Korea
- **Yong Do Lim**  
Sungkyunkwan University, Korea
- **Pradip Majhi**  
University of Calcutta, India
- **Hari M. Srivastava**  
University of Victoria, Canada
- **Jan Stochel**  
Jagiellonian University, Poland

## Organizing Committee

- **Yongju Bae**  
Kyungpook National University, Korea
- **Chan-Young Park**  
Kyungpook National University, Korea
- **Il Bong Jung**  
Kyungpook National University, Korea
- **Young Jin Suh**  
Kyungpook National University, Korea
- **Seog-Hoon Rim**  
Kyungpook National University, Korea
- **Philsu Kim**  
Kyungpook National University, Korea
- **Younghae Do**  
Kyungpook National University, Korea

## Supported by

- **Kyungpook National University**
- **BK21Plus Next Creative Mathematical Computation Division**

## January 8 [Mon] (Room 213, Natural Science Building, KNU )

08:50~09:00	Registration
09:00~09:10	Opening Il Bong Jung (Kyungpook National University)
Session A1-1 <span style="float: right;">Chair: Il Bong Jung (KNU)</span>	
09:15~10:00	<i>Fractional-Order Derivatives and Integrals: Introductory Overview and Recent Developments</i> <b>H. M. Srivastava</b> (University of Victoria, Canada)
10:00~10:10	Coffee Break & Discussions
Session A1-2 <span style="float: right;">Chair: Younghae Do (KNU)</span>	
10:10~10:55	<i>Multivariate Löwner-Heinz inequalities</i> <b>Young Do Lim</b> (Sungkyunkwan University)
10:55~11:15	Coffee Break & Discussions
Session A1-3 <span style="float: right;">Chair: Sung Guen Kim (KNU)</span>	
11:15~12:00	<i>On Normal Products of Selfadjoint Operators</i> <b>Jan Stochel</b> (Uniwersytet Jagiellonski, Poland)
12:00~14:00	Lunch
Session A2 <span style="float: right;">Chair: Dong-Won Lee (KNU)</span>	
14:00~14:20	<i>For regularity of compressible Stokes flows</i> <b>Jae Ryong Kweon</b> (Pohang University of Science and Technology)
14:20~14:40	<i>Comparative study on two different type predator-prey systems relating to Turing patterns</i> <b>Hunki Back</b> (Daegu Catholic University)
14:40~15:00	<i>Artificial neural network using numerical analysis</i> <b>Byeong-Chun Shin</b> (Chonnam National University)
15:00~15:20	Coffee Break & Discussions
Session A3 <span style="float: right;">Chair: Kim, Eun Sup(KNU)</span>	
15:20~15:40	<i>On Cayley graphs</i> <b>Jaeeun Lee</b> (Yeungnam University)
15:40~16:00	<i>A study on the Theoretical Background of the Multiplication of Rational Numbers as Composition of Operators</i> <b>Keunbae Choi</b> (Jeju National University)
16:00~16:20	<i>A new characterization of unique factorization domains of formal power series</i> <b>Hwankoo Kim</b> (Hoseo University)
16:20~16:40	Coffee Break & Discussions
Session A4 <span style="float: right;">Chair: Seonghak Kim</span>	
16:40~17:00	<i>Contact Riemannian geometry</i> <b>Jong Taek Cho</b> (Chonnam National University)
17:00~17:20	<i>Conformal Killing Forms on Foliated Manifolds</i> <b>Seoung Dal Jung</b> (Jeju National University)
17:20~17:40	<i>Conformal transformations and Ricci curvature</i> <b>Byung Hak Kim</b> (Kyung Hee University)
17:40~18:00	<i>An Example of Computational Mathematics, Science, and Engineering Convergence</i> <b>Oyeon Kum</b> (Kyungpook National University)

January 9 [Tue] (Room 213, Natural Science Building, KNU /Novotel Ambassador Daegu)	
09:00~09:10	Registration
Session B1-1 <span style="float: right;">Chair: Young Jin Suh (KNU)</span>	
09:15~10:00	<i>On generalized Robertson-Walker spacetimes</i> <b>Uday Chand De</b> (University of Calcutta, India)
10:00~10:10	Coffee Break & Discussions
Session B1-2 <span style="float: right;">Chair: Philsu Kim (KNU)</span>	
10:10~10:55	<i>Nevanlinna counting functions and Green functions</i> <b>Hong Oh Kim</b> (KAIST & UNIST)
10:55~11:15	Coffee Break & Discussions
Session B1-3 <span style="float: right;">Chair: Sunghwan Moon (KNU)</span>	
11:15~12:00	<i>Ricci solitons and *-Ricci Solitons on contact manifolds</i> <b>Pradip Majhi</b> (University of Calcutta, India)
12:00~14:00	Photo Time & Lunch
Session B2 <span style="float: right;">Chair: Young-Ho Kim (KNU)</span>	
14:00~14:20	<i>The Cartan mean and Wasserstein mean of positive definite matrices</i> <b>Sejong Kim</b> (Chungbuk National University)
14:20~14:40	<i>Hypersurface Constrained Elasticae in Lorentzian Space Forms</i> <b>Changhwa Woo</b> (Woosuk University)
14:40~15:00	<i>Linear preserver problems and term rank preservers</i> <b>Seok-Zun Song</b> (Jeju National University)
15:00~16:00	<b>KNU → Novotel Ambassador (Champagne Hall, B2 )</b>
Session B3 <span style="float: right;">Chair: Yongju Bae (KNU)</span>	
16:00~16:40	<i>How to index Kyungpook Mathematical Journal in Science Citation Index Expanded</i> <b>Hyungsun Kim</b> (Inha University)
16:40~17:00	Coffee Break & Discussions
Session B4 <span style="float: right;">Chair: Mark Halvor Siggers (KNU)</span>	
17:00~17:50	<i>Discussion on KMJ Accreditation Strategy</i>
18:00~20:30	<b>Banquet &amp; Home Coming Day</b> Chair: Jung Wook Lim (KNU)

January 10 [Wed] (Room 213, Natural science building, KNU)

09:00~09:10	Registration	
Session C1-1	Chair: Yongkuk Kim (KNU)	
09:15~10:00	<i>The integral cohomology of the projective unitary groups</i> <b>Haibao Duan</b> (Chinese Academy of Sciences, China)	
10:00~10:10	Coffee Break & Discussions	
Session C1-2	Chair: Jung Wook Lim (KNU)	
10:10~10:55	<i>A skein invariant for oriented surface-links via the Jones polynomial</i> <b>Sang Youl Lee</b> (Pusan National University)	
10:55~11:15	Coffee Break & Discussions	
Session C1-3	Chair: Chan-Young Park (KNU)	
11:15~12:00	<i>Complexities of a knitting pattern</i> <b>Akio Kawauchi</b> (Osaka City University, Japan)	
12:00~14:00	Lunch	
14:00~18:00	Discussions	

KNU Campus map (Daegu)

