

# Notices from the ISMS

( Novae Scientiae Mathematicae )

January 2010

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## BOOK REVIEW

Notices from the ISMS  
January 2010, Pages 1-2

*Fixed Points in Uniform Spaces and Applications*, by Vasil G. Angelov,  
Cluj University Press, Cluj-Napoca, 2009, 229 pp., ISBN 978-973-610-847-1

One of the most dynamic are of research in mathematics in the fixed point theory. The basic topics of this theory, in terms of structured sets, are the following:

- *Fixed point theory in algebraic structures* (sets, ordered sets, groups, rings, algebras, universal algebras, categories,...): [21], [24], [2], [12], [23], [26], [29],...
- *Fixed point theory in metric and generalized metric spaces*: [17], [14], [1], [4], [7], [16], [22], [24], [25], [28],...
- *Metrical fixed point theory in Banach spaces*: [10], [17], [5], [8], [18], [20], [24], [29],...
- *Topological fixed point theory in Banach spaces*: [1], [5], [8], [12], [18], [19], [23], [24], [26], [27],...
- *Fixed point theory in uniform spaces and in gauge spaces*: [13], [17], [24], [28],...
- *Fixed point theory in topological space, linear topological space and in locally convex spaces*: [13], [8], [12], [13], [15], [23], [24], [27],...
- *Fixed point theory in algebraic topology*: [6], [11], [9], [3], [12], [27],...

The Angelov's book is devoted to the fixed point theory in uniform spaces and in gauge spaces. It is organized in seven chapters: Introduction, Fixed Points of  $\phi$ -contractive mappings (Topological preliminaries,  $\phi$ -contractive mappings in uniform space, Applications to neutral functional differential equations, Applications to maximum equations,  $\phi$ -contractive mappings in  $j$ -unbounded uniform spaces), Coincidence Theorems and Applications (Coincidence theorems, Applications to the Cauchy problem, Application to the Goursat problem), Fixed Points of Nonexpansive and Expansive Mappings (Fixed point of  $j$ -nonexpansive mappings, Application to Abel-Liouville integral equations, Surjectivity results, Continuous dependence of the fixed points, Fixed point in  $\eta$ -connected uniform spaces, Fixed points of non-self mappings, On the iterative test for  $j$ -contractive mappings in uniform spaces), Converse and Uniformization Results (Converse to a contraction mapping theorem in a uniform space, A reuniformization theorem for a continuous mapping in a uniform space, A reuniformization for "dynamical systems ansable" in a uniform space, Uniform asymptotic stability and contractive semigroups), Fixed Points of  $\phi$ -densifying Mapping (Fixed point of  $\phi$ -densifying mappings, Application to the Goursat problem with deviating arguments, Coincidence theorems for densifying mappings), Various Applications (An automatic control problem, On the Goursat problem for hyperbolic functional-differential equations, On the neutral equations in a complex domain, Nonlinear circuits with polynomial resistive elements, Lossy transmission lines terminated by R-loads).

The References contains 204 titles, 24 of them written by the author of this book.

The style of writing in clear, concise and the choice of topics reflects the author's interests and results in the fixed point theory. I am convinced that this book will become a standard reference in the field of the fixed point theory in uniform spaces and in gauge spaces.

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15. Signature

For Japanese Applicants, please send two application forms, one in English and the other in Japanese.

I wish to enroll as a member of ISMS and will pay to International Society for Mathematical Sciences the annual dues upon presentation of an invoice. Copies of *Mathematica Japonica*, *Scientiae Mathematicae* and *Scientiae Mathematicae Japonicae* received as an ISMS member will be for my personal use and shall not be placed in institutional, university or other libraries or organizations, nor can membership subscriptions be used for library purposes.

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## Join ISMS !

**ISMS Publications:** We published **Mathematica Japonica (M.J.)**, which enjoyed an international reputation, for about sixty years in print and its offshoot **Scientiae Mathematicae (SCM)** both online and in print. In January 2001, the two publications were unified and changed to **Scientiae Mathematicae Japonicae (SCMJ)**, which is the “21<sup>st</sup> Century New Unified Series of Mathematica Japonica and Scientiae Mathematicae” and published both online and in print. Ahead of this, the online version of SCMJ was first published in September 2000. The number of the annual total pages of the print version has been from 900 to 1,200 pages in six issues since January 1978. The whole number of SCMJ exceeds 240, which is the largest amount in the publications of mathematical sciences in Japan. The features of SCMJ are:

- 1) About 90 eminent professors and researchers of not only Japan but also 20 foreign countries join the Editorial Board. The submitted papers are received directly by the editors and are refereed quickly. The accepted papers are published online with no lead time after compiling or proofreading. SCMJ is reviewed by Mathematical Review and Zentralblatt from cover to cover.
- 2) SCMJ is distributed to many libraries of the world. The papers in SCMJ are introduced to the relevant research groups for the positive exchanges between researchers.
- 3) The original papers and surveys of distinguished mathematical scientist appear in every issue of SCMJ. The section called “International Plaza” of SCMJ has very interesting expository papers written by the eminent mathematical scientist of the world. Presentations of recent research frontier including award lectures by the winners of the ISMS Prize or Shimizu Prize are made.
- 4) **ISMS Annual Meeting:** Many researchers of ISMS members and non-members gather and take time to make presentations and discussions in their research groups every year.
- 5) The ISMS holds inter-regional videoconferences called **International Videoconference of Mathematical Sciences (IVMS)** via internet. There is no need for the participants to travel abroad.

**Privileges to ISMS Members:** (1) Free access (**including printing out**) to the online version of SCMJ, (2) Discounted price for the printed version of SCMJ (See **Table 1**), (3) Discounted page charges (See **Table 2**).

**Privileges to Institutional Members:** (1) Two associate members can be registered, free of charge, from an institution. (2) The discounted page charges (Table 2) are applied to the associate members.

**Table 1: Subscription Price**

	Individual 1-year mem.	Individual 3-year mem.	Institutional member	List Price
Print / year	¥ 6,000 US\$60, €48	¥ 5,500 * US\$55, €44	¥ 33,000 US\$300, €240	¥ 45,000 US\$400, €320
Online/year	Free	Free		
Online+Print / year	¥ 6,000 US\$60, €48	¥ 5,500 * US\$55, €44	¥ 33,000 US\$300, €240	¥ 45,000 US\$400, €320

Postal charge is US\$2 (€1.6) per issue. \*In case three-year members make the payment at a time in advance, the price for 3 years is ¥ 15,000 (US\$150, €120). The authors can buy a copy of the print version at a price of ¥ 1,200 (US\$12) per issue including postage.

**Table 2: Publication charge for accepted papers**

The charge system for accepted papers has been changed and the basic publication charge has been introduced to reduce the total publication charge. The publication charge consists of the **basic publication charge (¥1,000(US\$10, €7))** and the **page charge**. The page charges per printed page are **drastically reduced** as follows.

	ISMS members	Non-members
p	¥ 3,500 ( US\$35, € 23 )	¥ 4,000 ( US\$40, €27 )
Tex	¥ 2,000 ( US\$20, € 14 )	¥ 2,500 ( US\$25, €17 )
LateX2e, LaTeX	¥ 700 ( US\$ 7, € 4 )	¥ 1,000 ( US\$10, € 7 )
Js ( ISMS style file )	¥ 500 ( US\$ 5, € 3 )	¥ 800 ( US\$ 8, € 5 )

**Table 3: Membership Dues for this year**

Categories	Domestic	Overseas	Developing countries
1-year member (1A)	A1: ¥ 9,000	F1: US\$75 , €60	D1: US\$45, €36
3-year member (3A)	A3: ¥ 24,000	F3: US\$200, €160	D3: US\$117, €93
1-year students or aged (1S)	SA1: ¥ 5,000	SF1: US\$40, €32	SD1: US\$27, €21
3-year students or aged (3S)	SA3: ¥12,000	SF3: US\$100, €80	SD3: US\$71, €57
Life member* (L)	AL: ¥ 90,000	FL: US\$740, €592	DL: US\$616, €493

\*The members who have been the ISMS members for more than 10 years are eligible for this category. The categories 1S and 3S are for students or persons over 70 years old.