

# SORIN V. SABAU

Contact : Tokai University, School of Biological Science and Engineering,  
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## Profile

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Associate Professor at Hokkaido Tokai University in the Computer Science Department, holding a PHD degree in Science (Tokyo Metropolitan University, Japan) and a PHD degree in Mathematics (University Al. I. Cuza, Iasi, Romania) with a number of internationally published research papers and publications. Research interests include differential geometry, particularly Higher Order Geometries, Finsler Geometry, Differential Geometry of Differential Equations and Life Science, particularly Bioinformatics, and Computational Biology.

## Education

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### **September 1987 - June 1991**

*Institution: Babes-Bolyai University, Cluj-Napoca, Romania*

Major field: Differential Topology

Degree Received: **Bachelor of Science in Mathematics (June 1991)**

*Institution: Al. I. Cuza University, Iasi, Romania*

Major field: Differential Geometry

Degree Received: **Doctor in Mathematics; June 1998,**

Supervisor Acad. Prof. Dr. Radu Miron

Ph.D. Thesis: "Higher order Finsler spaces. Generalizations and Applications.", (155 pages thesis)

### **April 1996- March 1998**

*(\*For the above mentioned period I was awarded a Mombusho Scholarship from the Japanese Government)*

*Institution: Hokkaido Tokai University*

Major field: Differential Geometry

### **1998-2001**

*Institution: Tokyo Metropolitan University*

Major field: Differential geometry (doctor degree course),

Degree received: **Doctor in Science, specialty Mathematics,**

(March 2001, Supervisor Prof. Dr. Yoshihiro Ohnita)

Ph. D. Thesis: "Path geometries on Finsler manifolds", (186 pages thesis)

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## Employment History

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### **1991-1993**

*Institution: Elementary School No. 29, Brasov, Romania*

Position: Instructor of Mathematics

*Institution: Transylvania University, Brasov, Romania*

Position: Part time instructor

Subject taught: Differential Geometry, Analysis, and Differential Equations

### **1993-1996**

*Institution: Transylvania University, Brasov, Romania*

Position: Assistant professor

Subject taught: Differential Geometry, Analysis, Linear Algebra, and Differential Equations, Computer Science

### **April 1997-June 1997**

*Institution: Hokkaido Tokai University, Sapporo, Japan*

Position: Part time instructor

Subject taught: Differential and Integral Calculus (in Japanese)

### **March 1999- March 2001**

*Institution: International Christian University, Tokyo, Japan*

Position: Part time instructor

Subject taught: Geometry, Analysis, Linear Algebra, Differential Equations (in English and Japanese)

### **April 2000-March 2003**

*Institution: Hitachi, Ltd., Life Science Group, Tokyo, Japan*

Position: Researcher

Subject: Bioinformatics and Computational Biology

### **June 2001- March 2004**

*Institution: Tokyo Metropolitan University, Tokyo, Japan*

Position: Visiting Researcher

Subject: Finsler spaces of constant curvature, Protein production Stability

### **2003-Present**

*Institution: Tokai University, Sapporo, Japan*

Position: Associate Professor, School of Biological Science and Engineering

Subject: Cell information engineering, Genome Analysis, Introduction to Life Science, Fundamentals of mathematics, Linear algebra, Operating systems

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theory, Statistical analysis, Introduction to numerical computational  
methods, Introduction to Bioinformatics (master course).  
(\*All classes taught in Japanese.)

## Current Memberships

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Member of Mathematical Society of Japan  
Member of Japan Society for Bioinformatics  
Member of Tensor Society  
Member of Japanese Society for Finsler Geometry

## Personal Information

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Date of Birth: December 7<sup>th</sup>, 1967  
Nationality: Romania  
Marital Status: Married.