

# NAPROCK

## INTERNATIONAL PROGRAMMING CONTEST

### **Introduction**

NAPROCK international programming contest.

Is held in commemoration of 20<sup>th</sup> Kosen Procom.

Students learning at Technical Colleges or Universities can make use of everyday learning and compete with ideas in information processing technology.

There are three branches Themed section, Original section, and Competition.

The challenge is to make full use of recent information processing technology that continues developing.

Incomplete applications will be accepted, but possible usefulness and real world applications will be considered in the contest.

This Kosen Procom contest aims to promote flexibility of thinking through programming, at a very high level. To date high evaluations have been obtained for each field represented. This contest also attracts a national audience through NHK's educational broadcasting. It is promoted as a creative educational project.

As there is participation by overseas teams, this contest also fosters international exchanges in the field of information processing technology.

We are waiting for enthusiastic applications from many technical college and university students.



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### Sponsors

#### Main sponsor

Nourishment Assosiation for Programming Contest KOSEN  
(NAPROCK) non-profit organization (NPO)

#### Co-sponsor

Technical College Association

#### Supporters

Toshiba Solutions Corporation, Shinko Engineering & Maintenance Co., LTD  
NextWare Ltd.

( Other supporters to be confirmed )

#### Supervising School

Kisarazu National College of Technology

#### Secretariat

NAPROCK non-profit organization (NPO)

#### Programming Contest Homepage

Official site: <http://naprock.jp/IntProcon/>

Kosen-PROCON official site: <http://www.procn.gr.jp/>

#### Judging Committee

##### Chairperson

Prof. KAMINUMA, Yasuko (Information Processing Society of Japan,  
Fellow)

##### Committee Members

USUI, Shiro (RIKEN BSI)  
Prof. UMEMURA, Kyoji (Toyohashi University of Technology)  
Prof. OHIWA, Hajime (Teikyo Heisei University)  
Prof. KUNIEDA, Yoshitoshi (Ritsumeikan University)  
Prof. MATSUZAWA, Teruo (JAIST)  
MIKAMI, Shigemi (NHK)  
MIYAJI, Chikara (JISS)  
Prof. YOSHIKAWA, Toshinori (Nagaoka University of Technology)

( Support company to be confirmed )

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### Dates and Location

#### Application period

1<sup>st</sup> July.2009 (Wed) ~31st July.2009 (Fri)

\*Please apply in specifying the following contents and send by E-mail to  
[mmoro@nagaoka-ct.ac.jp](mailto:mmoro@nagaoka-ct.ac.jp)

- Entry Section
- Systems name
- Entry member list (Full name, Position subject, Year, Age),
- Systems outline (Less than 300 words)

#### Abstract and System configuration period

20<sup>th</sup> Aug.2009 (Thu)

\*Please apply in specifying the following contents and send by E-mail with MS-Word or PDF files to  
[mmoro@nagaoka-ct.ac.jp](mailto:mmoro@nagaoka-ct.ac.jp)

- Themed section and Original Section: 1 page of A4 paper size.
- Competition: Half page of A4 paper size.

\*Detail of information and Templates will be upload on Webpage.

#### Examination document period

16<sup>th</sup> Oct.2009 (Fri)

\*please apply in specifying the following contents and submit on entry.

- Themed section and Original Section:  
Less than 10 page of A4 sized **4 copies** of Manual.  
**3 copies** of Program source list
- Competition: **1 copy** of Program source list

**Contest Date:** 17th October.2009 (Sat) ~18<sup>th</sup> October.2009 (Sun)

**Location:** Kazusa Akademia Hall  
(Chiba-ken Kisarazu-city Kazusa Kamatari 2-3-9)

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### Qualification Requirements

All students of Japanese technical colleges who submit an application during the on-line registration period, (including advanced course students)

#### Collection section

(Please check the details on the programming contest official homepage)

@Number of teams per technical college

Themed section: Maximum 2 teams (members per team 2-5 persons)

Original section: Maximum 2 teams (members per team 2-5 persons)

Competition: Maximum 1 team (members per team 2-3 persons)

Please subscribe one project per team.

Duplicate registration of a student is forbidden.

That is, the same student cannot belong to two or more teams.

The combined team by the student of plural schools isn't recognized.

A student cannot change his/her registration from one section to another e.g. from Themed section to Original section.

Change of a registrant after preliminary passage is accepted about a Competition. However, change of an instruction teacher cannot be accepted.

### About an entry

Please apply with software that is executable with PCs, and that is possible for the demonstration and presentation in the final contest or competition.

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### Examination Method

#### 1. Themed Section and Original Section

The presentation and demonstration will be examined synergistically.

The frame of reference of the examination is originality, technical capabilities of systems development, usefulness, ease of use, manual/documentation preparation, speech and presentation skills, etc.

The operations manual and program source list will also be graded.

Participating teams must submit an operations manual and a program source list at 16 Oct. 2009 .

#### 2. Competition

A confrontation game will determine victory or defeat.

### Award

In the Themed Section and the Original Section, the following prizes will be awarded.

Grand Prize*	1 team	A Certificate of Merit and an extra prize
Second Prize	1 team	A Certificate of Merit and an extra prize
Special Prize	a few teams	A Certificate of Merit and an extra prize

The following prizes are awarded in the competition.

Champion*	1 team	A Certificate of Merit and an extra prize
Second Prize	1 team	A Certificate of Merit and an extra prize
Special Prize	a few teams	A Certificate of Merit and an extra prize

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### Notes

1, the completeness of the system

Please complete with entry application system idea.

2, System transportation

Competitions bear the transportation expense of the system, for the demonstration of the free section in the final contest and in the participant competition.

You will be notified after the preliminary stage about the transportation procedure.

In addition, each team must prepare own computers.

3, the exhibit space

The exhibit space for the final contest is confined to 180cm in width, 180cm in depth, and 200cm in height per 1 system.

Please keep within a rule.

In addition, we are going to offer Internet connection to each booth.

4, Intellectual property

An applicant has the copyright for the entry, but must permit a recorded video, the process control computer official site, and the pamphlet of the following documents.

(1) Documents (a work introduction, application contents manual) which you submit at the time of application

(2) Documents (a pamphlet manuscript, an operation manual) which you submit in the final contest

(3) Data for photograph / video of the final contest and presentation

5, The Results of the final contest will be delivered LIVE via the Internet.

This competition is part of the 20th Kosen ProCon.

Kosen Procom executive committee in co-operation with Supervising Schools.

### Contact

Makoto Yamazaki (Nagaoka National college of Technology )

[mmoro@ngaoka-ct.ac.jp](mailto:mmoro@ngaoka-ct.ac.jp)