

Automated Match Scheduling (AMS™)



Produced by: Yushen Lai's Tournament Production Team

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Introduction

- Tried and Tested Methodology for TKD Tournament competition.
- 50+ TKD Tournaments including:
 - California State Juniors, Southern 1993-96,98-2004
 - California State Juniors, Northern 1994-96
 - California State Seniors, 1996-2004
 - California State Games 2001-2004
 - California Open 1995-2000, 2002
 - Yushen Lai Invitational 1994-2004
 - International Cup Championships 1997
 - Best of the Best 2002
 - USTU Presidents Cup 2002
 - U.S. Open 1999
 - Pan Am Open 1998
 - International Cup 1997
 - 15th U.S. Jr. Olympic 1995

Why Automated Match Scheduling?

- Most non-computerized tournaments use a manual method of matching individuals, which is often slow, confusing, and frustrating for competitors, spectators and staff.
- Computerized matching reduces the confusion and delays by informing competitors & spectators of ring assignments, chest guard color, and approximate time of competition.
- Competitors are checked-in and assigned matches for the tournament *prior* to arriving into the venue.
- Greatly reduces the number of man-hours needed at the time of the event by volunteers/staff.
- Makes sure athletes are assigned to their correct division.

Why Automated Match Scheduling?

- All competitors are given “Competitor cards” prior to entering the competition floor with all personal information on each card.
 - Information includes, but is not limited to:
 - Name
 - Date of Birth / Age
 - Weight
 - Belt
 - School Name & number
 - Poomse group number & competition ring number
 - Kyroogi bout numbers, competition ring number and color of chest guard.

Tournament time frame

Taekwondo Competition single elimination - broken into 2 primary parts

- If 1000 competitors (total) are signed up for the tournament using 12 rings, we can estimate the following:
 - 800 (80%) will compete in Poomse
 - 800 (80%) will compete in Kyoogi
- Poomse – approximately 2 – 4 hours
 - Each competitor takes approximately 45 seconds to 1 minute to compete
1 min. + 1 min. in & out of ring per competitor = 2 min. per competitor
800 competitors / 12 (number of rings) = 66.67 or 67 competitors per ring
67 * 2 minutes per competitor = 134 minutes or 2 hours 14 minutes (minimum)
- Kyoogi – approximately 3 – 8+ hours
Actual competition time is dependent on number of competitors, volunteers, rings, and other outside forces (knockouts, disqualifications, no-shows, etc).

800 competitors / 12 (number of rings) = 66.67 or 67 competitors per ring

67 * .75 = 50.25 or approximately 50 bouts per ring.

50 bouts * 7 minutes per bout (see Time Calculations page 12) = 350 minutes
or 5 hours 50 minutes minimum.

Poomse & Kyroogi Weight Classes

Men

- Fin Weight (under 50 kg/110 lbs)
- Fly Weight (50 - 54 kg/111-119 lbs)
- Bantam Weight (54-58 kg/120-128 lbs)
- Feather Weight (58-64 kg/129-141 lbs)
- Light Weight (64-70 kg/142-154 lbs)
- Welter Weight (70-76 kg/155-168 lbs)
- Middle Weight (76-83 kg/169-183 lbs)
- Heavy Weight (83 kg/184 lb and above)

Women

- Fin Weight (under 43 kg /95 lbs)
- Fly Weight (43 - 47 kg/96-104 lbs)
- Bantam Weight (47-51 kg/105-112 lbs)
- Feather Weight (51-55 kg/113-121 lbs)
- Light Weight (55-60 kg/122-132 lbs)
- Welter Weight (60-65 kg/133-143 lbs)
- Middle Weight (65-70 kg/144-154 lbs)
- Heavy Weight (70 kg/155lbs and above)

Poomse

- Poomse / Forms competition
- No “Holding area” needed.
- All competitors are called to the competition floor based on “Group numbers”
 - Groups are Divisions grouped together by the computer based on number of competitors for each division to give the most “even” number of competitors per ring. This also keeps the number of athletes present at the ring more manageable.
 - ❖ Divisions are based on the following criteria:
 - ❖ Gender (M/F)
 - ❖ Weight / Weight Class
 - ❖ Belt level
 - ❖ Age

Poomse / Forms Competition

- 2 Primary jobs, 1 Secondary job
 - Ring Crew Leader
 - Assistant Ring Crew Leader
 - Expeditor

Poomse Competition Job Summary

Ring Crew Leader (RCL)

- The ring crew leader sits on the innermost chair towards the judges. RCLs' primary job is to write down and add competitors scores, which are read by the ARL. It is very important that the RCL does not move or otherwise be distracted during the scoring process. The RCL is to report all scores 1st, 2nd and 3rd place, as well as all ties or other problems to the ring judges.

Assistant Ring Crew Leader (ARL)

- The assistant ring crew leader sits on the outer chair towards the contestant. Primarily the ARL will accept all contestants into the ring and organize the contestants properly. This includes calling all contestants up at their appointed time to perform, and to organize the competitors on the floor.
- The ARL is also, more importantly, responsible for reporting all scores from the judges to the RCL as accurately as possible, without mistake (reading scores twice to verify).

Expeditor

- The expeditor is responsible for organizing all competitors upon arrival into the ring, bringing groups onto the competition floor into and away from, their respective rings.

Kyroogi / Sparring Competition

- 2 Primary jobs, 2 Secondary jobs
 - Computer Operator
 - Ring Crew Leader
 - Assistant Ring Crew Leader
 - Expeditor

Time Calculations

Time needed for each match:

90 seconds per round (x 2 rounds)

30 seconds break between rounds

= 210 seconds or 3.5 minutes per bout.

+ 3.5 minutes for misc. activity in the ring

= **approximately 7 minutes per bout**

Therefore, for 50 scheduled bouts in a ring, the estimated time from the beginning to the end of the sparring matches will be approximately 350 minutes or 5 hours 50 minutes.

*** To estimate the time until a competitors bout - multiply the competitors bout number by 7 minutes.

Kyroogi Ring Management

(Electronic Scoring System)

- Computer Operator (CO) will adjust computer for correct number of rounds and length of rounds, based on age & belt color (divisions).
- CO will begin and end the computer timer by direction of Center Referee only.
- CO will adjust the clock, score, warning, and penalty settings as directed by the Technical Advisor (TA) or Center referee only.
- At end of 30 second rest period, CO will prompt center Referee to restart the match.
- At end of each bout, TA will validate final score.
- In case of a tie score, the winner will be determined by sudden death – first point wins, or for lower belts, by Superiority.

Electronic Scoring – RingMaster®

- All CTA certified tournaments will use Electronic Scoring –RingMaster® system
- We will integrate our number matching system with the electronic scoring.
- All results for Kyroogi will be documented on the pre-printed bracket sheets.
- 1 volunteer per ring will be certified to use the RingMaster® software.
- A “Technical Advisor” will be appointed to verify computer entries and results are correct.

Ring Crew Leader

- Organize bracket sheets and competitor cards.
- Write winners information on Kyroogi Bracket Sheets
- Inform winners when their next bout is to take place (bout number).
- Inform 3rd place competitor(s) to stay for the award/medal presentation

Assistant Ring Leader

- Receive competitors / cards in ring.
- Keep track of match numbers on both sides of ring stand.
- Check all competitors for correct safety gear (equipment, nails, etc.) when they arrive.
- Verify on-deck competitors are ready for competition.
- Arrange bout cards for Ring leaders, and verify that competitors are at the ring.
- Inform announcer of any missing players.

Expeditious ring management

Due to the often large number of competitors during Kyroogi competition, we try to expedite the competition as quickly, and safely as possible.

This is accomplished during Kyroogi by alternating the final bouts of each division with the next consecutive divisions 1st match.

Ring management – Brackets

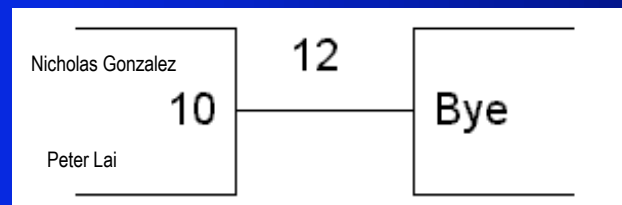
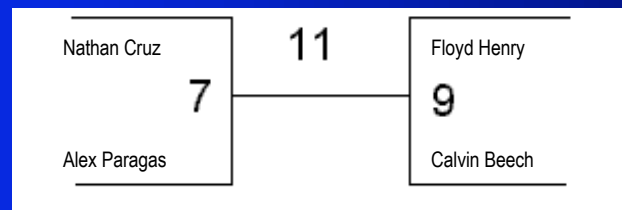
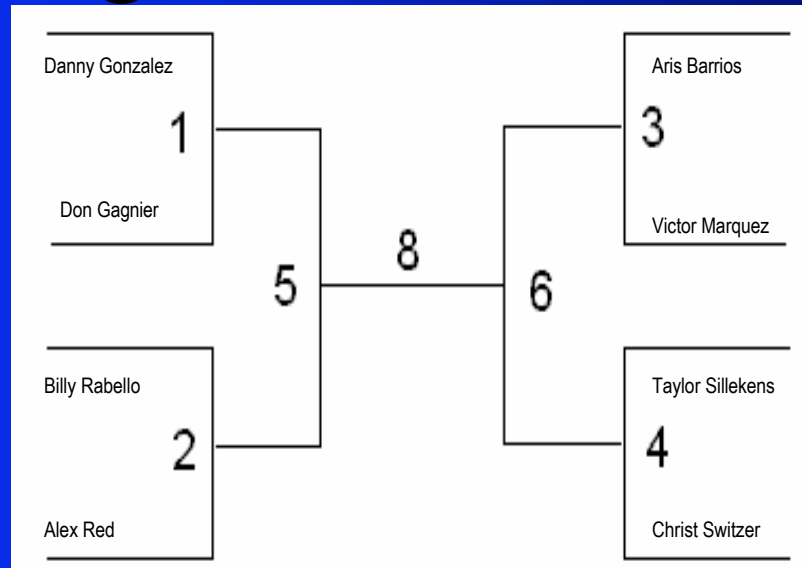
- In the following bracket example, after the completion of bout 6, the next bout for this division is bout 8. Bout number 7 is the 1st bout on the next division (page of competitors).

This is done for 2 primary reasons:

1st – We do not want to stop the ring while the last *winning* competitor (Bout 6) takes a minimum 5 minutes rest, and to possibly change chest guard/equipment.

2nd – This allows for continuous non-stop action to take place in the ring, which ultimately, speeds up the tournament.

Kyroogi Bracket Sheets



Medal & awards

- Medals are presented to the winners in the ring immediately following the completion of their DIVISION.
 - Medal awards are as follows:
 - Poomse
 - 1 Gold (1st)
 - 1 Silver (2nd)
 - 1 Bronze (3rd)
 - Kyroogi
 - 1 Gold (1st)
 - 1 Silver (2nd)
 - 2 Bronze (3rd)

Certificates & Results

- All paperwork for each ring will be kept in the ring until the end of the competition. It will then be collected and the corresponding data will be entered into the computer system for publication
- Certificates of Merit, competition, eligibility and/or participation for all competitors will be mailed to the competitors school following the tournament.